

Chapter 8

Section B

Warrant officer MOS specifications

8-2-1. General

This chapter contains specifications for each of the occupational codes developed and approved for warrant officer classification.

8-4-2. Specifications for warrant officer MOS

This chapter contains specifications for each warrant officer specialty. The chapter is organized by each specialty and defined as 8-XXXX where XXXX represents the warrant officer specialty. For example the specifications for 131A, Field Artillery Targeting Technician are located in section 8-131A.

Table 8-2-1**Warrant Officer MOS Substitution**

BR	Substituting MOS	Substituted MOS
12	None	
13	None	
14	None	
15	For ARNG Only: 152, 152, 153 Rated Aviator and SQI B/G/I/M	153A with SQI H Grade W5
15	For ARNG Only: 152, 152, 153 Rated Aviator and SQI B/G/I/M	153A with SQI G Grade W5
15	For ARNG Only: 152, 152, 153 Rated Aviator and SQI B/G/I/M	153A with SQI B Grade W5
17	None	
18	390A	180A
21	None	
25	For ARNG Only: 255S or 255N	255A Grade W4
25	For ARNG Only: 255S or 255N	255Z Grade W5
27	None	
28	None	
31	None	
35	None	
39	None	
42	None	
60	None	
64	None	
67	None	
74	None	
88	None	
89	None	
91	For ARNG Only: 920B or 922A	920A Grade W5
92	None	
94	For ARNG Only: 948E or 890A	915E Grade W5

Table 8-2-2 (Effective 202710)

Warrant Officer Feeder MOS

MOS	Warrant Officer Title	Feeder MOSs
ENGINEERS		
120A	Construction Engineering Technician	12H - Construction Engineering Supervisor 12K - Plumber 12N - Horizontal Construction Engineer 12P - Prime Power Specialist 12O - Power Distribution Specialist 12R - Interior Electrician 12T - Technical Engineer 12W - Carpentry and Masonry Specialist
125D	Geospatial Engineering Technician	12Y - Geospatial Engineer
Fires		
131A	Field Artillery Targeting Technician	11B - Infantryman 13B - Cannon Crewmember 13F - Fire Support Specialist 13J - Fire Control Specialist 13M - Multiple Launch Rocket System Crewmember 13R - Field Artillery Firefinder Radar Operator 13Z - Field Artillery Senior Sergeant 19D - Cavalry Scout
140A	Command and Control Systems Technician	14G - Air Defense Battle Management System Operator 14H - Air Defense Early Warning System Operator
140K	Air and Missile Defense Systems Technician	14E - Patriot Fire Control Enhanced Operator/Maintainer 14G - Air Defense Battle Management System Operator 14H - Air Defense Early Warning System Operator 14P - Air and Missile Defense Crewmember 14T - Patriot Launching Station Enhanced Operator/Maintainer
140L	Air and Missile Defense Systems Technician	14E - Patriot Fire Control Enhanced Operator/Maintainer 14G - Air Defense Battle Management System Operator 14H - Air Defense Early Warning System Operator 14P - Air and Missile Defense Crewmember 14T - Patriot Launching Station Enhanced Operator/Maintainer 91D - Tactical Power Generation Specialist (Tac Pwr Gen Spec) 94M - Radar Repairer 94S - Patriot System Repairer 94T - Short Range Air Defense System Repairer 94Y - Automatic Test System Operator/Maintainer
AVIATION		
150A	Air Traffic Control Technician	15O - Air Traffic Control Operator
150U	Tactical Unmanned Aerial Systems Operation Technician	15E - Unmanned Aircraft Systems Repairer 15W - Unmanned Aircraft Systems Operator
151A	Aviation Maintenance Technician	15B - Aircraft Powerplant Repairer 15D - Aircraft Powertrain Repairer 15E - Unmanned Aircraft Systems Repairer 15F - Aircraft Electrician 15G - Aircraft Structural Repairer 15H - Aircraft Pnedraulics Repairer 15K - Aircraft Component Repair Supervisor 15J - OH58D Systems Repairer 15K - Aircraft Component Repair Supervisor 15N - Avionic Mechanic 15P - Aviation Operations Specialist 15O - Air Traffic Control Operator 15R - AH64 Attack Helicopter Repairer 15S - OH58D Helicopter Repairer 15T - UH60 Helicopter Repairer 15U - Medium Helicopter Repairer 15W - Unmanned Aircraft Systems Operator 15Y - AH64D Systems Repairer 15Z - Aircraft Maintenance Senior Sergeant
152B/C/D/E/F/H	Aviation Pilots	All MOS'
153A/D/E/L/M	Aviation Pilots	All MOS'
154C/E/F	Aviation Pilots	All MOS'
155A/E/F/G	Fixed Wing Pilots	No Enlisted Feeder, WO AOCs 152, 153, 154
CYBER		
170A	Cyber Operations Technician	All MOS'
170B	Electronic Warfare Technician	17E - Electronic Warfare Specialist
170D	Cyber Capabilities Developer Technician	17 Series
SPECIAL FORCES		
180A	Special Forces Warrant Officer	18B - Special Forces Weapons Sergeant 18C - Special Forces Engineer Sergeant 18D - Special Forces Medical Sergeant 18E - Special Forces Communications Sergeant 18F - Special Forces Assistant Operations & Intel Sergeant 18Z - Special Forces Senior Sergeant
SIGNAL		
255A	Information Services Technician	All MOS'
255N	Network Management Technician	All MOS'
255S	Information Protection Technician	255A - Information Services technician 255N - Information Protection Technician
255Z	Senior Network Operations Technician	255A - Information Services technician 255N - Network Management Technician 255S - Information Protection Technician

MOS	Warrant Officer Title	Feeder MOSS
		JAG
270A	Legal Administrator	27D - Paralegal Specialist
280A	Software Operations (Effective 202610)	All MOS
		MILITARY POLICE
311A	CID Special Agent	31D - Criminal Investigation Special Agent
		MILITARY INTELLIGENCE
350F	All Source Intelligence Technician	35F - Intelligence Analyst
350G	GEINT Imagery Technician	35G - Geospatial Imagery Analyst
351L	Counterintelligence Technician	35L - Counterintelligence Agent
351M	Human Intelligence Collection Technician	35M - Human Intelligence Collector
351Y	Area Intelligence Technician	NO Enlisted Feeder
351Z	Attaché Technician	Non-Accession: Existing MI WO
352N	Signal Intelligence Analysis Technician	35N - Signals Intelligence Analyst 35P - Cryptologic Communications 35S - Signals Collector/Analyst
352S	Signals Collection Technician	35S - Signals Collector/Analyst
353T	Military Intel Systems Maint Tech	35T - Military Intelligence Systems Maintainer/Integrator
		ADJUTANT GENERAL
420A	Human Resources Technician	42A - Human Resources Specialist
420C	Bandmaster	42R - Musician
		MEDICAL
640A	Veterinary Services Food Safety Officer	68R - Veterinary Food Inspection Specialist 68S - Preventive Medicine Specialist
670A	Health Services Maintenance Technician	68A - Biomedical Equipment Specialist
		CHEMICAL
740A	CBRN Technician	74D - Chemical Operations Specialist
		TRANSPORTATION
880A	Marine Deck Officer	88K - Watercraft Operator
881A	Marine Engineering Officer	88L - Watercraft Engineer 12P - Prime Power Specialist
882A	Mobility Officer	88N - Transportation Management Coordinator
		ORDNANCE
890A	Ammunition Warrant Officer	89A - Ammunition Technician 89B - Ammunition Specialist 89D - Explosive Ordnance Disposal Specialist
913A	Armament Systems Maint Warrant Officer	91A - M1 Abrams Systems Maintainer 91F - Small Arms/Artillery Repairer 91G - Fire Control Repairer 91M - Bradley Fighting Vehicle Systems Maintainer 91X - Maintenance Supervisor 91Z - Mechanical Maintenance Supervisor
914A	Allied Trades Warrant Officer	91E - Allied Trade Specialist 91X - Maintenance Supervisor 91Z - Mechanical Maintenance Supervisor
915A	Automotive Maintenance Warrant Officer	91A - M1 Abrams Systems Maintainer 91B - Wheeled Vehicle Mechanic 91H - Track Vehicle Repairer 91L - Construction Equipment Repairer 91M - Bradley Fighting Vehicle Systems Maintainer 91P - Artillery Mechanic 91S - Stryker Systems Maintainer 91X - Maintenance Supervisor 91Z - Mechanical Maintenance Supervisor
915E	Senior Automotive Maintenance Warrant Officer/Senior Ordnance Logistics Warrant Officer (W4/W5)	NO Enlisted Feeder/ WO Feeder 913A, 914A, 915A, 919A
919A	Engineer Equip Maint Warrant Officer	91B - Wheeled Vehicle Mechanic 91C - Utilities Equipment Repairer 91D - Power Generation Equipment Repairer 91H - Track Vehicle Repairer 91J - Quartermaster and Chemical Equipment Repairer 91L - Construction Equipment Repairer 91X - Maintenance Supervisor 91Z - Mechanical Maintenance Supervisor
948B	Electronic Systems Maintenance Warrant Officer	25S - Satellite Communications Systems Operator/Maintainer 94D - Air Traffic Control Equipment Repairer 94E - Radio Equipment Repairer 94F - Computer Detection Systems Repairer 94H - Test, Measurement, and Diagnostic Equipment Maintenance Support Specialist 94R - Avionic and Survivability Equipment Repairer 94W - Electronic Maintenance Supervisor 94Y - Automatic Test Systems Operator and Maintainer 94Z - Senior Electronic Maintenance Supervisor
948D	Electronic Missile Systems Maintenance Warrant Officer	94A - Land Combat Electronic Missile System repairer 94M - Radar Repairer 94P - Multiple Launch Rocket System repairer 94S - Patriot System Repairer 94T - Short Range Air Defense System Repairer 94W - Electronic Maintenance Supervisor 94Z - Senior Electronic Maintenance Supervisor
948E	Senior Electronics Maintenance Warrant Officer	No Enlisted Feeder. WO Feeder 948B, 948D
		QUARTERMASTER
920A	Property Accounting Technician	92Y - Supply Specialist
920B	Supply Systems Technician	92A - Automated Logistical Specialist
921A	Airdrop Systems Technician	92R - Parachute Rigger
922A	Food Service Technician	92G - Cook
923A	Petroleum Systems Technician	92F - Petroleum Supply Specialist 92L - Petroleum Laboratory Specialist

Table 8-2-2

Warrant Officer Feeder MOS

MOS	Warrant Officer Title	Feeder MOSs
ENGINEERS		
120A	Construction Engineering Technician	12H - Construction Engineering Supervisor 12K - Plumber 12N - Horizontal Construction Engineer 12P - Prime Power Specialist 12Q - Power Distribution Specialist 12R - Interior Electrician 12T - Technical Engineer 12W - Carpentry and Masonry Specialist
125D	Geospatial Engineering Technician	12Y - Geospatial Engineer
Fires		
131A	Field Artillery Targeting Technician	11B - Infantryman 13B - Cannon Crewmember 13F - Fire Support Specialist 13J - Fire Control Specialist 13M - Multiple Launch Rocket System Crewmember 13R - Field Artillery Firefinder Radar Operator 13Z - Field Artillery Senior Sergeant 19D - Cavalry Scout
140A	Command and Control Systems Technician	14G - Air Defense Battle Management System Operator 14H - Air Defense Early Warning System Operator
140K	Air and Missile Defense Systems Technician	14E - Patriot Fire Control Enhanced Operator/Maintainer 14G - Air Defense Battle Management System Operator 14H - Air Defense Early Warning System Operator 14P - Air and Missile Defense Crewmember 14S - Avenger Crewmember (ARNG/USAR Only) 14T - Patriot Launching Station Enhanced Operator/Maintainer
140L	Air and Missile Defense Systems Technician	14E - Patriot Fire Control Enhanced Operator/Maintainer 14G - Air Defense Battle Management System Operator 14H - Air Defense Early Warning System Operator 14P - Air and Missile Defense Crewmember 14S - Avenger Crewmember (ARNG/USAR Only) 14T - Patriot Launching Station Enhanced Operator/Maintainer 94M - Radar Repairer 94S - Patriot System Repairer 94T - Short Range Air Defense System Repairer
AVIATION		
150A	Air Traffic Control Technician	15Q - Air Traffic Control Operator
150U	Tactical Unmanned Aerial Systems Operation Technician	15E - Unmanned Aircraft Systems Repairer 15W - Unmanned Aircraft Systems Operator
151A	Aviation Maintenance Technician	15B - Aircraft Powerplant Repairer 15D - Aircraft Powertrain Repairer 15E - Unmanned Aircraft Systems Repairer 15F - Aircraft Electrician 15G - Aircraft Structural Repairer 15H - Aircraft Pnedraulics Repairer 15K - Aircraft Component Repair Supervisor 15J - OH58D Systems Repairer 15K - Aircraft Component Repair Supervisor 15N - Avionic Mechanic 15P - Aviation Operations Specialist 15Q - Air Traffic Control Operator 15R - AH64 Attack Helicopter Repairer 15S - OH58D Helicopter Repairer 15T - UH60 Helicopter Repairer 15U - Medium Helicopter Repairer 15W - Unmanned Aircraft Systems Operator 15Y - AH64D Systems Repairer 15Z - Aircraft Maintenance Senior Sergeant
152B/C/D/E/F/H	Aviation Pilots	All MOS'
153A/D/E/L/M	Aviation Pilots	All MOS'
154C/E/F	Aviation Pilots	All MOS'
155A/E/F/G	Fixed Wing Pilots	No Enlisted Feeder, WO AOCs 152, 153, 154
CYBER		
170A	Cyber Operations Technician	All MOS'
170B	Electronic Warfare Technician	17E - Electronic Warfare Specialist
170D	Cyber Capabilities Developer Technician	17 Series
SPECIAL FORCES		
180A	Special Forces Warrant Officer	18B - Special Forces Weapons Sergeant 18C - Special Forces Engineer Sergeant 18D - Special Forces Medical Sergeant 18E - Special Forces Communications Sergeant 18F - Special Forces Assistant Operations & Intel Sergeant 18Z - Special Forces Senior Sergeant
SIGNAL		
255A	Information Services Technician	All MOS'
255N	Network Management Technician	All MOS'
255S	Information Protection Technician	255A - Information Services technician 255N - Information Protection Technician
255Z	Senior Network Operations Technician	255A - Information Services technician 255N - Network Management Technician 255S - Information Protection Technician

MOS	Warrant Officer Title	Feeder MOSS
		JAG
270A	Legal Administrator	27D - Paralegal Specialist
		Software Operations
280A	Software Operations (Effective 202610)	All MOS'
		MILITARY POLICE
311A	CID Special Agent	31D - Criminal Investigation Special Agent
		MILITARY INTELLIGENCE
350F	All Source Intelligence Technician	35F - Intelligence Analyst
350G	GEINT Imagery Technician	35G - Geospatial Imagery Analyst
351L	Counterintelligence Technician	35L - Counterintelligence Agent
351M	Human Intelligence Collection Technician	35M - Human Intelligence Collector
351Y	Area Intelligence Technician	NO Enlisted Feeder
351Z	Attaché Technician	Non-Accession; Existing MI WO
352N	Signal Intelligence Analysis Technician	35N - Signals Intelligence Analyst 35P - Cryptologic Communications 35S - Signals Collector/Analyst
352S	Signals Collection Technician	35S - Signals Collector/Analyst
353T	Military Intel Systems Maint Tech	35T - Military Intelligence Systems Maintainer/Integrator
		ADJUTANT GENERAL
420A	Human Resources Technician	42A - Human Resources Specialist
420C	Bandmaster	42R - Musician
		MEDICAL
640A	Veterinary Services Food Safety Officer	68R - Veterinary Food Inspection Specialist 68S - Preventive Medicine Specialist
670A	Health Services Maintenance Technician	68A - Biomedical Equipment Specialist
		CHEMICAL
740A	CBRN Technician	74D - Chemical Operations Specialist
		TRANSPORTATION
880A	Marine Deck Officer	88K - Watercraft Operator
881A	Marine Engineering Officer	88L - Watercraft Engineer 12P - Prime Power Specialist
882A	Mobility Officer	88N - Transportation Management Coordinator
		ORDNANCE
890A	Ammunition Warrant Officer	89A - Ammunition Technician 89B - Ammunition Specialist 89D - Explosive Ordnance Disposal Specialist
913A	Armament Systems Maint Warrant Officer	91A - M1 Abrams Systems Maintainer 91F - Small Arms/Artillery Repairer 91G - Fire Control Repairer 91M - Bradley Fighting Vehicle Systems Maintainer 91X - Maintenance Supervisor 91Z - Mechanical Maintenance Supervisor
914A	Allied Trades Warrant Officer	91E - Allied Trade Specialist 91X - Maintenance Supervisor 91Z - Mechanical Maintenance Supervisor
915A	Automotive Maintenance Warrant Officer	91A - M1 Abrams Systems Maintainer 91B - Wheeled Vehicle Mechanic 91H - Track Vehicle Repairer 91L - Construction Equipment Repairer 91M - Bradley Fighting Vehicle Systems Maintainer 91P - Artillery Mechanic 91S - Stryker Systems Maintainer 91X - Maintenance Supervisor 91Z - Mechanical Maintenance Supervisor
915E	Senior Automotive Maintenance Warrant Officer/Senior Ordnance Logistics Warrant Officer (W4/W5)	NO Enlisted Feeder/ WO Feeder 913A, 914A, 915A, 919A
919A	Engineer Equip Maint Warrant Officer	91B - Wheeled Vehicle Mechanic 91C - Utilities Equipment Repairer 91D - Power Generation Equipment Repairer 91H - Track Vehicle Repairer 91J - Quartermaster and Chemical Equipment Repairer 91L - Construction Equipment Repairer 91X - Maintenance Supervisor 91Z - Mechanical Maintenance Supervisor
948B	Electronic Systems Maintenance Warrant Officer	25S - Satellite Communications Systems Operator/Maintainer 94D - Air Traffic Control Equipment Repairer 94E - Radio Equipment Repairer 94F - Computer Detection Systems Repairer 94H - Test, Measurement, and Diagnostic Equipment Maintenance Support Specialist 94R - Avionic and Survivability Equipment Repairer 94W - Electronic Maintenance Supervisor 94Y - Automatic Test Systems Operator and Maintainer 94Z - Senior Electronic Maintenance Supervisor
948D	Electronic Missile Systems Maintenance Warrant Officer	94A - Land Combat Electronic Missile System repairer 94M - Radar Repairer 94P - Multiple Launch Rocket System repairer 94S - Patriot System Repairer 94T - Short Range Air Defense System Repairer 94W - Electronic Maintenance Supervisor 94Z - Senior Electronic Maintenance Supervisor
948E	Senior Electronics Maintenance Warrant Officer	No Enlisted Feeder. WO Feeder 948B, 948D
		QUARTERMASTER
920A	Property Accounting Technician	92Y - Supply Specialist
920B	Supply Systems Technician	92A - Automated Logistical Specialist
921A	Airdrop Systems Technician	92R - Parachute Rigger
922A	Food Service Technician	92G - Cook
923A	Petroleum Systems Technician	92F - Petroleum Supply Specialist 92L - Petroleum Laboratory Specialist

8-011A. Branch/MOS immaterial 011A

MOS Specifications 8-011A has been established to identify warrant officer positions where the job description does not correlate directly with specific branch or MOS as described in this regulation. Branch/MOS immaterial applies to those positions within the Army where duties require a broad spectrum of knowledge of the organization and functions of the Warrant Officer Corps, but are not associated directly with any specific branch or MOS. (An example: positions with this level of specificity would be the Chief, Leader Development Branch, WO Division, HRC)

8-011M. Warrant Officer Branch/MOS Immaterial Grade

MOS Specifications 8-011M has been established to identify warrant officer positions in specific organizations encompassing initiatives related to the technological advancement of the Army where the job description does not correlate directly with specific branch/MOS and grade. (An example: positions serving in the Army Software Factory)

8-120A. Military Occupational Specialty 120A--Construction Engineering Technician

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Cir 601 series.
- c. *MOS 120A is an accession MOS. The enlisted feeder MOSs are: 12H, 12K, 12N, 12P, 12Q, 12R, 12T, or 12W, AIR FORCE 3E0xx, USMC 1169, 1361, 1141, NAVY BU, CE, UT, EA.*
- d. *Associated SQI.*
 - (1) O--No special qualifications.
 - (2) 8--Instruction.
 - (3) P--Parachutiste.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASIs.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)). Q6--Protection Cell Operations (personnel only) (Effective 202410).
- f. *Qualifications.*
 - (1) WO1/CW2 must -
 - (a) Successfully complete the Construction Engineering Technician Officer Warrant Officer Basic Course.
 - (b) Meet vision and hearing standards of AR 40-501 for assignment of officers to the Engineer Regiment, have normal color discrimination per AR 40-501, and have full use of both hands.
 - (c) Have good eye-hand coordination and manual dexterity to make minute adjustments on sensitive instruments.
 - (d) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (2) CW3 must -
 - (a) Meet qualifications as listed in paragraph f (1) above.
 - (b) Have successfully completed the Construction Engineering Technician Officer Warrant Officer Advanced Course.
 - (c) Successfully performed at the WO1/CW2 level.
 - (3) CW4 -
 - (a) Meet qualifications as listed in paragraph f (2) above.
 - (b) Successfully complete the Warrant Officer Staff Course.
 - (c) Successfully perform at the CW3 level as described in paragraph g for the feeder MOSs.
 - (4) CW5-
 - (a) Meet qualifications as listed in paragraph f (2) above.
 - (b) Successfully complete the Warrant Officer Staff Course.
 - (c) Successfully perform at the CW3 level as described in paragraph g for the feeder
- g. *Duties.*
 - (1) *WO1 – CW2.*
 - (a) Serves as the Commander's primary advisor on construction operations at company and/or battalion levels.
 - (b) Supervises and coordinates construction of base camps and internment facilities in support of engineer construction operations.
 - (c) Supervises the construction, repair, and maintenance of vertical infrastructure in engineer construction operations.
 - (d) Supervises and ensures proper preparation of a bill of materials, schedules of work and ensures employment of proper safety procedures.
 - (e) Devises network flow diagrams such as the critical path method and coordinates work activities of supporting units.
 - (f) Provide supervision over all structural and utility construction projects. Inspect subordinate elements to ensure compliance with directives, construction drawings, specifications, local codes and ordinances.
 - (g) Serves as the Commander's primary advisor in company level prime power operations.
 - (h) Provides advice and technical assistance on all aspects of electrical power and distribution in support of military operations.

(i) Supervises and manages separate teams in the performance of prime power operations during disaster relief as a support element of FEMA and USACE and in theater level operations.

(j) Serves as Survey & Design Detachment Commander and primary advisor on planning, preparation and execution of planning studies and tests for identified engineer work projects. Addresses facility citing environmental concerns and estimated project costs.

(k) Serves as Firefighting Headquarters Detachment Commander.

(2) CW3.

(a) Serves as the Battalion Maintenance Officer and Facilities Engineer in support of Combat Support Hospital operations in non-operational and operational environments.

(b) Primary advisor to the Commander and Staff on organizational maintenance support of all equipment.

(c) Provides engineering support and expertise on Deployable Medical Systems (DEPMEDS), utilizing organic equipment such as power generation equipment, environment control systems, water, waste, fuel and electrical distribution systems.

(d) Coordinates and supervises the installation and repair of water supply systems, plumbing, sewage, heating and air conditioning systems.

(e) Serves as a Engineer Brigade Survey & Design Team staff officer and primary advisor on planning, preparation and execution of planning studies and tests for identified engineer work projects.

(f) Addresses facility citing environmental concerns and estimated project costs.

(g) Serves additionally as Service School Instructor / Writers in the revision of training strategies, doctrine revisions, and formal engineering instruction to officers, warrant officers and NCOs as an element of the United States Army Engineer School staff.

(3) CW4.

(a) Serves as a member of the Engineer Staff in operational and non-operational MEBs, Division and Corps units.

(b) Serves as the Commander's primary advisor on all aspects of construction operations, to include supervision of vertical and horizontal infrastructure and facilities management.

(c) Coordinates directly with DPW in construction project preparation, oversight and the phased components of inspection for compliance with directives, construction drawings, specifications, local codes and ordinances.

(d) Serves as a member of the Installation Master Planning committee and monitors MILCON project funding. Serves as the Prime Power Battalion Staff Officer and primary subject matter expert on electrical power generation and distribution in support of global military operations.

(e) Serves as Service School Instructor / Writers in the revision of training strategies, doctrine revisions, and formal engineering instruction to officers, warrant officers and NCOs as an element of the United States Army Engineer School staff.

(f) Serves additionally in the MOS immaterial positions of Proponency Coordinator and Warrant Officer Career Branch Manager.

(4) CW5.

(a) Serves as the Construction Engineering expert and tactical and technical advisor to the commander, staff and major subordinate commanders in the United States Army Engineer School (USAES), United States Army Corps of Engineers and Army Service Component Command.

(b) Serves as the senior strategic advisor to the USAES Commandant in the capstone nominative assignment of Regimental Chief Warrant Officer.

(c) Serves as the Prime Power School Commander and primary advisor on the education and production of the US Army Prime Power Specialist.

(d) Serves additionally in the MOS immaterial position of Senior Warrant Officer Advisor for the Combined Arms Center at Fort Leavenworth.

g . *Physical demands category, grading and position titles.*

(1) A physical demands rating of moderate (Gold).

(2) Table 10-120A-1

(3) The following grades are used to code positions into one of three definable skill levels: W2 equals WO1/CW2; W3 equals CW3; and W4 equals CW4. The grades are listed in the following standards of grade tables:

- (a) *Table 8-120A-2. Standards of grade TOE/MTOE.*
- (b) *Table 8-120A-3. Standards of grade TDA.*

(4) Qualifying scores.

(a) A minimum OPAT score of Standing Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs. and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category “Moderate” (Gold).

8-125D. Military Occupational Specialty 125D--Geospatial Engineering Technician

a. *Licensing/certification requirements.* None.

b. *Prerequisites.* DA Cir 601 series.

c. *MOS 125D.* MOS 125D is an accession MOS.

The U.S. Army enlisted feeder MOS are the 12Y (Geospatial Engineer), 35G (Geospatial Intelligence Imagery Analyst), and U.S. Marine Corps enlisted MOS is 0261 (Geographic Intelligence Specialist). All enlisted and officer MOSs from U.S. military branches (U.S. Army, U.S. Marines, U.S. Air Force, U.S. Navy, and U.S. Coast Guard) with documented work experience routinely using Geospatial Information Sciences and Technologies (GIS&T), and having a Geographic Information Systems Professional (GISP) certification, or having a GEOINT Professional Certification in Geospatial Analysis, Cartography, Geospatial Database Management or Imagery Analysis, or having a four (4) years degree from an accredited college/university in GIS / GEOINT / GEOGRAPHY / GIS&T, are eligible to access into the 125D MOS. All accessions must have a Letter of Recommendation (LOR) from a CW3-CW5 in the 125D MOS.

d. *Associated SQI.*

(1) 0-No special qualifications.

(2) 8-Instructor.

(3) P-Parachutist.

(4) T-Transition (personnel only).

(5) Z-Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASI's associated with all Warrant Officer MOS.) Q6--Protection Cell Operations (personnel only) (Effective 202410).

f. *Qualifications.*

(1) *CW2 (WO1/CW2) must--*

(a) Complete the Geospatial Engineering Technician Warrant Officer Basic Course.

(b) Meet vision and hearing standards of AR 40-501 for assignment of officers to Engineer Corps and have full use of both hands in accordance with AR 40-501.

(c) Have a color vision to distinguish and identify without confusion the color of an object, substance, material, or light that is uniformly colored a vivid red or vivid green in accordance with AR 40-501.

(d) Be a U.S. citizen. Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmented information (SCI). MOS 125D warrant officers should initiate procedures to obtain the proper level of clearance immediately upon notification of the MOS 125D functional designation

(e) Must possess certificates in GPC-F, GPC-GA-II, GPC-CA-II, and GPC-GDM-II.

(2) *CW3 must--*

(a) Meet qualifications described in paragraph f(1).

(b) CW2s assigned to CW3 positions will attend and successfully complete the Geospatial Engineering Technician Warrant Officer Advanced Course.

(c) Successfully performed at the WO1/CW2 level.

(3) *CW4 must--*

(a) Meet qualifications described in paragraph f(2).

(b) CW3s assigned to CW4 positions will attend and successfully complete the Warrant Officer Intermediate Level Education (WOILE).

(4) *CW5 must--*

(a) Meet qualifications described in paragraph f(3).

(b) Complete the Warrant Officer Senior Service Education (WOSSE).

g. *Duties.*

(1) *WO1/CW2--*

(a) Directs Geospatial Engineering Operations in support of Unified Land Operations (ULO).

(b) Identifies gaps in geospatial information coverage. Coordinates with collection, production, and dissemination entities to obtain and verify Area of Interest (AoI) source data, ensuring it satisfies geospatial mission requirements for the generation of Essential Elements of Geospatial Information (EEGI).

(c) Projects Standard Sharable Geospatial Foundation (SSGF) requirements in support of ULO.

(d) Manages Geospatial Engineering Architecture operations and its connections on standalone, tactical, and classified networks to disseminate geospatial information content and services into Army GEOINT System of Records (AGSOR).

(e) Serves as advisor to the Command and Staff on geospatial engineering operations, training, policies, capabilities, and procedures in DOTLMPF formats.

(f) Integrates geospatial data and products into the execution of the Military Decision Making Process (MDMP) for ULO War-fighting Functions (WFF).

(g) Analyzes and delivers geospatial information, to include the effects of weather, to Commanders and their staff on ULO and training operations.

(h) Performs Geospatial Database Management operations on SSGF data to support ULO within Brigade Combat Team (BCT), Division, Corps, Army and Joint commands and Tactical Operations Center (TOC) / Tactical Command Post (TAC).

(i) Performs geospatial operations supporting the execution of the MDMP and Intelligence Preparation of the Battlefield (IPB) process at BCT, Division, Corps, Army and Joint command's Tactical Operations Center (TOC) / Joint Operations Center (JOC).

(j) Develops tactical and operational Geospatial Information and Services (GI&S) to the commander, staff and major subordinate commanders, providing guidance and advice on the use of geospatial engineering within Unified Land Operations.

(k) Employs Open Source Intelligence (OSINT), emerging technologies, and integrates geospatial-automated processes in support of Geospatial Engineering and Geospatial-Intelligence operations.

(l) Creates and manages geodetic data of an Area of Responsibility (AOR) verified from certified surveyors, satellite observations, global navigation satellite systems (GNSS), light detection and ranging (LIDAR), or related sources.

(m) Analyze geodetic control or surveyed data in adherence to precision and accuracy specifications in support of civil and military operations.

(n) Delivers quality Geospatial Information and Services (GI&S) SSGF data, products, and knowledge over commercial, tactical and classified networks to Mission Command systems, Common Operating Pictures, and approved customers operating within the Commander's AOR.

(o) Plans Geospatial Engineering operations with consideration to applicable laws, policies, and treaties with National Systems for Geospatial Intelligence (NSG) and U.S. Army geospatial engineer elements operating within the Combatant Command's (COCOM) AOR.

(p) Develops geospatial Operations Orders (OPORD), fragmentation orders (FRAGO), or Appendixes as seen in Appendix 7 of Annex B to a given Operations Order or Contingency Plan to communicate authorities.

(q) Generates and disseminates highly accurate and precise standard and non-standard cartographic products within NSG and U.S. Army cartographic standards for tactical and operational ground and air missions.

(r) Provides geospatial training assessment and feedback on geospatial operations using formal and informal AARs.

(s) Performs duties as the geospatial system integrator on military and civilian networks to provide GI&S.

(t) May serve as the GEOINT Section OIC at any echelon.

(2) CW3-

(a) Directs, plans, and performs duties shown in paragraph g(1).

(b) Serves as the principal advisor to senior staff members, decisions, and policy makers on Mission Command operations, training, policies, and procedures.

(c) Modifies geospatial GI&S web content in support of military and civil operations

(d) Manages a Relational Database Management System (RDBMS) in support of multi-user edits of SSGF data and geospatial services within commander's AOR.

(e) Designs and develops a geospatial Knowledge Management system with use of metadata formats and standards from the NSG and U.S. Corps of Engineers.

(f) Performs advanced remote sensing techniques to support EEGI extraction tasks.

(g) Integrates Geospatial Engineering operations, SSGF data, and products into Joint, Interagency, Intergovernmental, and Multinational geospatial partner operations.

(h) Advise commanders and their staff on Geospatial Information and Intelligence effects on Unified Land Operations and the gamut of WFF.

(i) Coordinates the acquisition of Geospatial Foundation Data for mission specifications from supported units, civilian and governmental agencies (foreign and domestic).

(j) Develops Tactics, Techniques, and Procedures (TTP)s or Standard Operating Procedures for GEOINT and/or Geospatial Engineering production, operations, and personnel work roles.

(k) May serve as a Doctrine Writer or Capabilities Developer.

(l) May serve as Geospatial Engineer and GEOINT Observer-Controller and Trainer to observe units and their Battle Staffs during training exercises on Army and Joint Training Centers.

(m) May serve as a Detachment Commander.

(n) May serve as an instructor at the Warrant Officer Career College and US Army Engineer School (USAES).

(o) May serve on the Joint or Combined Staff.

(3) CW4—

(a) Manages, directs, plans, and performs duties shown in paragraph g(2).

(b) Serves as the principal advisor to senior staff members, decision, and policy makers on GEOINT and Geospatial Engineering operations, training, policies, and procedures.

(c) Consolidates geospatial requirements from Army Service Component Command (ASCC) staffs for the submission of an annual priority list to the National Geospatial-Intelligence Agency (NGA) for production to meet ongoing and future operations.

(d) Submits ASCC geospatial requirements to the COCOM GI&S Officer for production.

(e) Provides senior leadership with assessments and counsel on DOTMLPF geospatial engineering gaps for an informed decision.

(f) Serves as the primary operator to manage the theater geospatial enterprise system and service, integrating emerging technologies and capabilities into unit geospatial processes/workflows.

(g) May serve as a Writer / Instructor at USAES.

(h) May serve on the Joint or Combined Staff.

(i) May serve as HRC EN WO Assignments Manager.

(j) May serve as USAES EN WO Proponent Coordinator.

(4) CW5--

(a) Performs duties shown in paragraph g(3).

(b) Delivers master-level technical and tactical expertise on the primary duties of technical leader, manager, multidiscipline geospatial integrator, and advisor.

(c) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties.

(d) Support commanders with the development of new geospatial engineer doctrine, organizational structure, methods and equipment to be utilized in the geospatial engineer field.

(e) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers.

(f) Possess special leadership abilities that interprets the commander's intent and mission to support ULO, representing and advising on the responsibilities of geospatial operators within their respective AOR.

(g) Primarily support division, corps, echelons above corps, major command, Joint, Interagency, Intergovernmental, and Multinational operations.

(h) Advise commanders and Engineer Branch Corps Chief Warrant Officer (CCWO) on the assignments and placement of Geospatial Engineering warrant officers worldwide.

(i) Provide essential advice to commanders on warrant officer issues and perform other officer level duties as required consistent with senior staff officer responsibilities.

(j) May serve as the Senior WO advisor in MOS immaterial (011A) billets based on technical knowledge and understanding of Army and Joint doctrine.

(k) May serve on the Army Staff.

(l) May serve on the Corps of Engineers Staff.

(m) May serve as a Capabilities Branch Chief.

(n) May serve as the RCWO of the EN Branch.

(o) Senior Field Grade Warrant Officers must have completed the WO Senior Service Education Course prior to nomination for specified CW5 billets.

h. *Physical demands category, grading and position titles.*

- (1) A physical demands rating of moderate (Gold).
- (2) *Table 8-125D-1.* Physical requirements.

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (a) *Table 8-125D-2.* Standards of grade TOE/MTOE.
- (b) *Table 8-125D-3.* Standards of grade TDA.

(4) Qualifying scores.

(a) A minimum OPAT score of Standing Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) –120 lbs. and Interval Aerobic Run (IR) –36 shuttles in Physical Demand Category “Moderate” (Gold).

(b) Visual and hearing acuity will meet the standards for E-1 and at least H-2 as defined in Table 7-1 of AR 40-501. Depth perception will be 40 seconds of arc or better.

8-131A. Military Occupational Specialty 131A--Targeting Technician

(Effective 202410)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Cir 601 series.
- c. *MOS 131A.* MOS 131A is an accession MOS. Enlisted feeder MOS are 11B, 11C, 19D, 19K and any CMF 13 MOS.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASI's associated with all MOS)).
 - (1) 5A—Joint Air Tactical Operations.
 - (2) L8 – Joint Operational Fires and Effects (in grades W2-W4 only; personnel and positions). (Effective 202610)
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Have a physical demands rating of Moderate (Gold).
 - (b) A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, Seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) -0036 shuttles in Physical Demand Category in “Moderate” (Gold).
 - (c) Complete the Targeting Technician Warrant Officer Basic Course.
 - (d) Meet physical standards per AR 40-501, chapter 2.
 - (e) Have 20/40 correctable vision per AR 40-501, paragraphs 2-13 and 5-17 and meet hearing standards per AR 40-501, paragraphs 2-7 and 5-18.
 - (f) Be a U.S. citizen.
 - (g) Hold a security clearance of SECRET.
 - (h) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmented information (SCI) (Effective 202310).
 - (2) *CW3 must--*
 - (a) Meet qualifications listed in paragraph f (1).
 - (b) Complete both phases of the Targeting Technician Warrant Officer Advanced Course as a CW2 or CW3.
 - (c) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmented information (SCI).
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f (2).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE) as a CW3 or CW4.
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f (3).
 - (b) Complete the Warrant Officer Senior Service Education (WOSSE).
- g. *Duties.*
 - (1) *WO1/CW2.* As a Target Acquisition Platoon Leader, Field Artillery Intelligence Officer and/or Targeting officer:
 - (a) Plans, organizes, implements, monitors, and evaluates operations, threat environment, and unit maintenance of field artillery radar systems.
 - (b) Provides advice on technical and tactical employment of field artillery radar systems.
 - (c) Instructs personnel on radar operations and tactical employment of radar systems.
 - (d) Performs reconnaissance and selection of site for emplacement of the radar.
 - (e) Assists the S2 and the brigade FSO by performing target value analysis duties.

(f) Assists in formulating attack guidance used in the brigade and Direct Support (DS) battalion Command Post (CP) and recommends changes to attack guidance.

(g) Advise the brigade S2 regarding specific requirements for target location accuracy and the duration that targets may be considered viable for attack.

(h) Assists in producing target selection standards for the brigade.

(i) Serve as assistant counter fire officer.

(j) Develops pattern analysis of enemy artillery for deliberate targeting purposes.

(k) Assists the Brigade Combat Team (BCT) S-2 in tying the weapons location radars to the information collection plan (ICP).

(l) Serves as the fires representative in the BCT S-2 section to conduct reverse IPB during mission analysis.

(2) *CW3. As a Field Artillery Intelligence Officer and Targeting Officer:*

(a) Performs duties described in paragraph g (1).

(b) Evaluates the technical and tactical operations of field artillery radar sections.

(c) Recommends target purging criteria to the S3 at Field Artillery Brigade (FAB) and Division Artillery (DIVARTY) level.

(d) Monitors the processing of target requests and reviews battle damage assessment at FAB and DIVARTY level.

(e) Recommends the employment and directs the operation of available TA assets at FAB and DIVARTY level.

(f) Monitors the development of the enemy artillery order of battle (OB) and the processing of target information and intelligence generated by the OB section at FAB and DIV level.

(g) Assists in production and application of target selection standards.

(h) Requests targeting information from military intelligence and higher sources and evaluates information obtained through the IPB process.

(i) Selects and expedites critical target information to the fire support systems.

(j) Develops a targeting process conducive with BCT operations.

(k) Assist the BCT FSO in production and application of attack guidance matrix, target selection standards, high-payoff target list and target synchronization matrix.

(l) Assists the DIV/CORPS G-2 with target value/system analysis.

(m) Contributes to the information collection plan to identify High-Payoff Targets (HPT) at the DIV/CORPS level.

(3) *CW4. As a Targeting Officer and Field Artillery Intelligence Officer:*

(a) Performs duties described in paragraph g (2).

(b) Advises the Division CDR and FSCOORD on all matters concerning targeting.

(c) Assists the DIV/CORPS G-2 in developing an ICP based on targeting priorities.

(d) Monitors the development of the enemy artillery OB and the processing of target information and intelligence generated by the OB section at Division and Corps level.

(e) Assists in production and application of target selection standards at Division and Corps level.

(f) Requests targeting information from military intelligence and higher sources and evaluates information obtained through the IPB process at Division and Corps level.

(4) *CW5--*

(a) Performs duties described in paragraph g (3).

(b) Advises the Corps Commander on all matters pertaining to targeting and employment of all target acquisition assets.

(c) Performs all targeting duties as described in (3) above at a level appropriate and necessary for the most senior Targeting Technician in the Corps.

(d) Advises the Commandant at the Field Artillery School on all matters pertaining to targeting, and worldwide Targeting Technician personnel status.

(e) Monitors threat situation, keeps deputy FSCOORD informed, and recommends changes to priorities and attack means at Corps level.

(f) Coordinates between the CTOCSE and the Tactical Control and Analysis Element (TCAE) to ensure potential targets are recognized and passed expeditiously to the fire support cell.

- (g) Provides detailed information regarding accuracy requirements and how old information can be before it is no longer of used to the fire support system.
- (h) Ensures attack managers understand how important identification of the target is and when such identification is critical to the targeting effort.
- (i) Analyzes and recommends changes to commanders targeting and attack guidance and coordinates target acquisition assets for the Corps.

h. *Physical demands category, grading and position titles.*

- (1) Physical Demands Category (PDC) – Moderate.
- (2) *Table 8-131A-1.* Physical requirements.
- (3) Authorized position titles are provided in tables 6-2 and 6-3. The following grades are used to code positions into one of four definable skill levels. W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (a) *Table 8-131A-2.* Standards of grade TOE/MTOE.
 - (b) *Table 8-131A-3.* Standards of grade TDA.

8-140A. Military Occupational Specialty 140A—Air and Missile Defense (AMD) Systems Integrator

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Cir 601 series.
- c. *MOS 140A.* MOS 140A is an accession MOS. The primary enlisted feeder MOSs are 14G and 14H. Additional accession MOSs can be found on the U.S. Army Recruiting Command Official Website.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASI's associated with all MOS)).
 - (1) 2N – GMD Analyst (Effective. 202710)
 - (2) 6N—THAAD Launch Control Station (LCS) System Integrator.
 - (3) C8—Air Defense Airspace Management (ADAM) / Brigade Aviation Element (BAE) .
 - (4) D4—Sensor Manager Leader.
 - (5) Q4--Joint Tactical Ground Station Operator.
 - (6) Q6--Protection Cell Operations (personnel only).
 - (7) T2--Joint Interface Control Officer.
 - (8) T3—Ground-based Midcourse Defense (GMD) System.
 - (9) Y7--Sensor Manager Operations.
- f. *Qualifications.*
 - (1) WO1/CW2 must--
 - (a) Complete the AMD Systems Integrator Warrant Officer Basic Course.
 - (b) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (c) Have normal vision correctable to 20/20; normal color discrimination; full use of both hands; and have normal hearing per AR 40-501.
 - (d) Have a physical profile that allows assignment to remote locations.
 - (e) A physical demands rating of moderate (Gold).
 - (f) A minimum OPAT score of Standing Long Jump (LJ) – 120 cm, Seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category “Moderate” (Gold).
 - (2) CW3 must--
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete both phases of the Warrant Officer Advanced Course for CW2 (P) or CW3.
 - (3) CW4 must--
 - (a) Meet qualifications in paragraph f(2).
 - (b) Complete the Warrant Officer Staff Course (WOSC) for CW3(P) or CW4.
 - (4) CW5 must--
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the WOSSC.
- g. *Duties.*
 - (1) WO1/CW2--
 - (a) Technical advisor to the commander on systems employment options and communication link architecture for Army Air Defense Command and Control Systems.
 - (b) Analyze and interprets technical data employment in the communications network between Army, Marine, Navy, Air Force and Joint Tactical Air Operations (JTAO).
 - (c) Advises personnel on systems capability and configuration options that are assigned to Command and Control Centers, and when necessary, serves as Tactical Director.
 - (d) Serves as the primary trainer for all assigned personnel and is charged with coordinating efforts necessary to emplace assets and adapt software which best supports Army

Air Defense C2I fighting tactics, using the guidelines of Mission, Enemy, Terrain and weather, Troops and support available, Time available, and Civil considerations (METT-TC).

(e) Advises the commander on available options for task force organization and assets on-hand for reconstitution.

(f) Serves as data link manager, providing link prioritization and standard operation procedures for all link initialization parameters.

(g) Coordinates the activities of support personnel and manages equipment and site assets for the installation, repair (by using BIT/BITE removal and replacement procedures) and integration of the Army Air Defense C2 system ancillary equipment and tools.

(h) Advises, assist and train personnel on specialized test procedures, tools and technical manuals in order to identify, isolate and repair equipment failures and communication outages.

(i) Establishes repair priorities based on fix or fight criteria, reconstitution and availability, or required assets.

(j) Assist in the development of unit Field Standard Operating Procedures (FSOP), Tactical Standard Operating Procedures (TSOP), and internal operating procedures.

(2) CW3--
(a) Perform duties as described in paragraph g(1).
(b) Serves as an instructor, writer, training developer and evaluator for MOS related service schools.

(c) Advises the commander at brigade and corps levels on C2 systems capabilities and integration procedures providing the multi-system interface into the joint/combined arena.

(3) CW4--
(a) Perform duties described in paragraph g(2).
(b) Interfaces with senior level commanders from all services and gives input for the integration and tactical deployment procedures of the Army's C2 systems.
(c) Advises the commander at brigade and corps levels on C2 systems capabilities and integration procedures providing the multi-system interface into the joint area.
(d) Provides integration and tactical guidance on Army C2 Air Defense elements while serving as a liaison officer to elements above corps level.
(e) Interfaces with senior weapons procurement officials for future modifications to the Army's C2 system.
(f) Serves as a combat developer for MOS related service schools.

(4) CW5--
(a) Perform duties described in paragraph g(3).
(b) Provides leadership, guidance, integration, tactical input and direction to subordinate elements, staff agencies, and field commanders through Theater Army level.
(c) Interfaces with senior level commanders from all services and gives input for the integration and tactical deployment procedures of the Army's C2 systems.
(d) Interfaces with senior weapons procurement officials for future modifications to the Army's C2 system.
(e) Advises the Commandant and Assistant Commandant at the Army Air Defense Artillery School on all matters pertaining to ADA warrant officers.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate.
(2) A physical profile of 222221.
(3) Normal color vision.
(4) *Table 8-140A-1. Physical requirements.*
(5) Authorized position titles are provided in tables 6-2 and 6-3. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-140A-2. Standards of grade TOE/MTOE.*
(b) *Table 8-140A-3. Standards of grade TDA.*

8-140K. Military Occupational Specialty 140K--Air and Missile Defense (AMD) Systems

Tactician

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* AR 601 series.
- c. *MOS 140K.* MOS 140K is an accession MOS. The Enlisted feeder MOSs are 14E, 14G, 14H, 14P and 14T. The United States Army (USA) Officer feeder AOC is: 14A (O2-O3). The United States Marine Corps (USMC) Enlisted feeder MOSs are: 72XX.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)).
 - (1) Q6--Protection Cell Operations (personnel only).
 - (2) T3--Ground-based Midcourse Defense (GMD) System.
 - (3) T4--Air Defense Artillery Fire Control Officer (ADACFO).
 - (4) T5--Patriot Top Gun.
 - (5) 2N – GMD Analyst (Effective 202710)
 - (6) 7B—THAAD Tactician.
- f. *Qualifications.*
 - (1) WO1 must--
 - (a) Complete the AMD Warrant Officer Basic Course.
 - (b) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (c) Have normal vision correctable to 20/20; normal color discrimination; full use of both hands; and have normal hearing per AR 40-501.
 - (d) Have a physical profile that allows assignment to remote locations.
 - (e) A physical demands rating of moderate (Gold).
 - (f) A minimum OPAT score of Standing Long Jump (LJ) – 120 cm, Seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category “Moderate” (Gold).
 - (2) CW2 must--
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Common Core & AMD Systems Tactician Warrant Officer Intermediate Course (WOIC).
 - (3) CW3 must--
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Obtain and maintain a TS/SCI security clearance.
 - (c) Complete the Common Core & Warrant Officer Advanced Course (WOAC).
 - (4) CW4 must--
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Common Core & Warrant Officer Senior Course (WOSC).
 - (5) CW5 must--
 - (a) Meet qualifications described in paragraph f(4).
 - (b) Complete the Warrant Officer Mastery Course (WOMC).
- g. *Duties.*
 - (1) WO1/CW2--
 - (a) Provides leadership and oversees the battery Fire Control crew functions: identification, surveillance, weapon control, integration, and fire control.
 - (b) Conducts air battle management, and Air Defense operations as battery Fire Control Officer (FCO).
 - (c) Ensures tracks are properly identified and engaged in accordance with published criteria.
 - (d) Assesses overall defense effectiveness of assigned assets, and evaluate risk to defended assets.

- (e) Communicates with battalion fire control officer.
- (f) Monitors engagement operations, and prevent unnecessary multiple engagements.
- (g) Advises the commander on readiness aspects of march order, emplacement and capabilities and limitations of the Air Defense weapon systems.
- (h) Implements and ensure compliance with proper safety and security procedures applicable to the AMD weapons systems.
- (i) Assists platoon leaders in operator/crew training.
- (j) Conducts tactical training for crew certifications.
- (k) Serves as battery standardization officer.

(2) CW3--

- (a) Perform duties described in paragraph g (1).
- (b) Conducts air battle management, and Air Defense operations as battalion fire control officer.
- (b) Provide AMD weapons systems peculiar tactical assistance, reporting guidance, and direction to subordinate elements.
- (c) Advise the commander or staff officers on AMD weapons systems capabilities and limitations.
- (d) Evaluates, trains, and validates unit readiness for the commander.
- (e) Coordinates total package fielding and the effects of modifications to the AMD weapons systems and trains new doctrinal concepts.
- (f) Serves as an instructor, writer, training developer and evaluator for MOS related service schools.
- (g) Serves as the battalion standardization officer.

(3) CW4--

- (a) Perform duties described in paragraph g (2).
- (b) Performs duties as ADAFCO at ADA brigade and Army Air and Missile Defense Command (AAMDC) levels.
- (c) Serve as Project Manager on New/Improved AMD weapon systems fielding.
- (d) Provide leadership, guidance, tactical input, and direction to subordinate elements, staff agencies, and field commanders up to and including Brigade/Corps level.

(e) Serves as a combat developer for the Capabilities, Development and Integration Directorate.

- (f) Serves as the brigade standardization officer.

(4) CW5--

- (a) Perform duties described in paragraph g (3).
- (b) Develop, review and update the life cycle management of AMD warrant officers.
- (c) Advise the Commandant and Assistant Commandant at the Army Air Defense Artillery School on all matters pertaining to AMD warrant officers.
- (d) Provide leadership, guidance, technical input, and direction to subordinate elements, staff agencies, field commanders at theater level, and interfaces with senior leadership in a joint/combined environment.
- (e) Coordinates training, and evaluations for Air and Missile Defense (AMD) systems.

h. *Grading and position titles.* Authorized position titles are provided in tables 6-2 and 6-3. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (1) *Table 8-140K-1. Standards of grade TOE/MTOE.*
- (2) *Table 8-140K-2. Standards of grade TDA.*

i. *Physical demands rating and qualifications for initial award of MOS.* Air and Missile Defense (AMD) Systems Tactician must possess the following qualifications:

- (1) A physical demands rating of light.
- (2) A physical profile of 222221.
- (3) Normal color vision.
- (4) Possess normal dexterity in both hands.

- (5) A security eligibility of SECRET is required for the initial award of the MOS.
- (6) A security eligibility of TS/SCI is required for CW3-CW5.
- (7) A U.S. citizen.

8-140L. Military Occupational Specialty 140L--Air and Missile Defense (AMD) Systems

Technician

a. *Licensing/certification requirement.* None.

b. *Prerequisites.* AR 601 series.

c. *MOS 140L.* MOS 140L is an accession MOS. The enlisted feeder MOSSs are 14E, 14G, 14H, 14P, 14T, 91D, 94M, 94S, and 94T, 94Y. The United States Army (USA) Officer feeder AOC is 14A (O2-O3). The United States Air Force Enlisted feeder MOSSs are: 2A5XX, 2A3XX, 2A6XX. The United States Marine Corps (USMC) Enlisted feeder MOSSs are: 28XX, 59XX, 63XX. The United States Navy Enlisted feeder MOSSs are: 3M, ET, FC, FT.

d. *Associated SQI.*

(1) 0--No special qualifications.

(2) 8--Instructor.

(3) P--Parachutist.

(4) T--Transition (personnel only).

(5) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)).

(1) 2N – GMD Analyst (Eff. 202710)

(2) 7C—THAAD Technician

(3) Q6--Protection Cell Operations (personnel only).

(4) T3--Ground-Based Midcourse Defense (GMD) System.

f. *Qualifications.*

(1) WO1 must--

(a) Complete the AMD Warrant Officer Basic Course.

(b) Be a U.S. citizen. Qualify for a security eligibility of SECRET.

(c) Have normal vision correctable to 20/20; normal color discrimination; full use of both hands; and have normal hearing per AR 40-501.

(d) Have a physical profile that allows assignment to remote locations.

(e) A physical demands rating of moderate (Gold).

(f) A minimum OPAT score of Standing Long Jump (LJ) – 120 cm, Seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category “Moderate” (Gold).

(2) CW2 must--

(a) Meet qualifications described in paragraph f(1).

(b) Complete Common Core & AMD Systems Technician Warrant Officer Intermediate Course (WOIC).

(3) CW3 must--

(a) Meet qualifications described in paragraph f(2).

(b) Obtain and maintain a TS/SCI security clearance.

(c) Complete the Common Core & Warrant Officer Advanced Course (WOAC).

(4) CW4 must--

(a) Meet qualifications described in paragraph f(3).

(b) Complete the Common Core & Warrant Officer Senior Course (WOSC).

(5) CW5 must—

(a) Meet qualifications described in paragraph f(4).

(b) Complete the Warrant Officer Mastery Course (WOSC).

g. *Duties*

(1) WO1/CW2--

(a) Provides leadership and coordinates the activities of system support personnel, equipment, site assets for the installation, repair (by using Built In Test/Built In Test Equipment (BIT/BITE) and/or standard troubleshooting procedures), system support, and modification of the Army Air and Missile Defense AMD Systems, ancillary equipment, and tools/test equipment.

(b) Plan, organize, implement, monitor, evaluate, and supervise operations and unit system support operations of AMD weapons systems.

(c) Advise the commander on readiness aspects of march order, emplacement and capabilities and limitations of the AMD weapons platforms and sensors.

- (d) Develop and implement system support SOPs.
- (e) Evaluates the effectiveness of system support personnel on adjustments, repair operations, and isolation procedures.
- (f) Advises and instructs system support personnel on the proper procedures to perform adjustments, repair operations, and fault isolation procedures.
- (g) Monitors and coordinate with higher headquarters elements and outside agencies for the installation of modifications on AMD weapons systems.
- (h) Implement and ensure compliance with proper safety and security procedures applicable to the AMD weapons systems.
 - (i) Oversee the Army Maintenance Management System (TAMMS).
 - (j) Supervise operations and system support of unit Prescribed Load List (PLL).
 - (k) Acts as the commander's representative for all aspects of unit system support operations and historical system support records.
 - (l) Supervise unit operations for Test, Measurement, and Diagnostic Equipment (TMDE).
 - (m) May perform duties as Conventional Equipment Officer.
 - (n) May perform duties as unit AOAP Officer.
- (2) CW3--
 - (a) Perform duties described in paragraph g (1).
 - (b) Provide AMD weapons platform and sensor systems peculiar tactical/technical assistance, reporting guidance, and direction to subordinate elements.
 - (c) Advise the commander or staff officers on capabilities and limitations of AMD weapons platforms and sensors.
 - (d) Evaluates unit system support readiness for the commander.
 - (e) Coordinates total package fielding and the effects of modifications to the AMD weapons systems and trains new system support concepts.
 - (f) Serves as an instructor, writer, training developer and evaluator for MOS related service schools.
 - (g) Reports readiness status of battalion equipment.
- (3) CW4--
 - (a) Perform duties described in paragraph g (2).
 - (b) Performs or oversees contract management and budgeting.
 - (c) Serve as Project Manager on New/Improved AMD weapon systems fielding.
 - (d) Provide leadership, guidance, technical input, and direction to subordinate elements, staff agencies, and field commanders up to and including Brigade/Corps level.
 - (e) Serves as a combat developer for MOS related service schools.
 - (f) Serves as brigade support operations officer.
- (4) CW5--
 - (a) Perform duties described in paragraph g (3).
 - (b) Develop, review and update the life cycle management of AMD warrant officers.
 - (c) Advise the Commandant and Assistant Commandant at the Army Air Defense Artillery School on all matters pertaining to AMD warrant officers.
 - (d) Provide leadership, guidance, technical input, and direction to subordinate elements, staff agencies, field commanders at theater level, and interfaces with senior leadership in a joint/combined environment.
 - (e) Coordinates the activities of support personnel, manages equipment, readiness reporting, resource management, training, and evaluations for Air and Missile Defense (AMD) systems.

h. *Grading and position titles.* Authorized position titles are provided in tables 6-2 and 6-3. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(1) *Table 8-140L-1. Standards of grade TOE/MTOE.*

(2) *Table 8-140L-2. Standards of grade TDA.*

i. *Physical demands rating and qualifications for initial award of MOS.* Air and Missile Defense (AMD) Systems Technician must possess the following qualifications:

- (1) A physical demands rating of light.
- (2) A physical profile of 222221.
- (3) Normal color vision.
- (4) Possess normal dexterity in both hands.
- (5) A security eligibility of SECRET is required for the initial award of the MOS.
- (6) A security eligibility of TS/SCI is required for CW3-CW5.
- (7) A U.S. citizen.

8-13. Military Occupational Specialty 140X—ADA Immaterial (ARNG only)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* None.
- c. *MOS 140X.* MOS 140X is a non-accession Special Reporting Code (SRC) for use with positions only. MOS 140A and 140E personnel may be utilized against SRC 140X positions at all levels.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 5--Power Systems Technician.
 - (3) 8--Instructor.
 - (4) P--Parachutist.
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.*
 - (1) T3--Ground-based Midcourse Defense (GMD) System.
 - (2) T5--Patriot Top Gun.
 - (3) 3R--Force Management.
 - (4) 6M--Mobilization and Demobilization Operations.
 - (5) 2N – GMD Analyst (Effective 202710)
 - (6) 7Q--Training Development.
- f. *Qualifications.* Not applicable. SRC 140X is used for coding positions only.
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Coordinate the activities of maintenance personnel, equipment, site assets for the installation, repair (by using Built In Test/Built In Test Equipment (BIT/BITE) and/or standard troubleshooting procedures), maintenance, and modification of the Army BMD Systems, ancillary equipment and tools/test equipment.
 - (b) Plan, organize, implement, monitor, evaluate and supervise operations and unit maintenance operations of BMD weapons systems.
 - (c) Advise the commander on readiness.
 - (d) Develop and implement maintenance SOPs.
 - (e) Evaluates the effectiveness of maintenance personnel on adjustments, repair operations and isolation procedures.
 - (f) Advises and instructs maintenance personnel on the proper procedures to perform adjustments, repair operations and fault isolation procedures.
 - (g) Monitor and coordinate with higher headquarters elements and outside agencies for the installation of modifications on BMD weapons systems.
 - (h) Implement and ensure compliance with proper safety and security procedures applicable to the BMD weapons systems.
 - (i) Oversee The Army Maintenance Management System (TAMMS).
 - (j) Supervise operations and maintenance of unit Prescribed Load List (PLL).
 - (k) Assist platoon leaders in operator/crew training.
 - (l) Acts as the commander's representative for all aspects of unit maintenance operations and historical records maintenance.
 - (m) Supervise unit operations for Test, Measurement, and Diagnostic Equipment (TMDE).
 - (n) May perform duties as Conventional Equipment Officer.
 - (o) May perform duties as unit AOAP Officer.
 - (2) *CW3--*
 - (a) Perform duties described in paragraph g(1).
 - (b) Provide BMD weapons systems peculiar tactical/technical assistance and reporting guidance and direction to subordinate elements.
 - (c) Advise the commander or staff officers on BMD weapons systems capabilities and limitations.
 - (d) Evaluates, trains and validates unit readiness for the commander.
 - (e) Coordinates total package fielding and the effects of modifications to the BMD weapons systems and trains new doctrinal concepts.

(f) Must be qualified as BMD crew member to conduct training and operational readiness evaluations.

(g) Conducts tactical training for crew certifications.

(3) *CW4--*

(a) Perform duties described in paragraph *g(2)*.

(b) Performs or oversees contract management and budgeting.

(c) Serve as Project Manager on New/Improved weapon systems fielding.

(d) Provide leadership, guidance, technical input and direction to subordinate elements, staff agencies, and field commanders up to and including Brigade/Combatant Command level.

(e) Must be qualified as BMD crew member to conduct training and operational readiness evaluations.

(4) *CW5--*

(a) Perform duties described in paragraph *g(3)*.

(b) Develop, review and update the life cycle management of BMD warrant officers.

(c) Provide leadership, guidance, technical input and direction to subordinate elements, staff agencies, Combatant Commanders, and interfaces with senior leadership in a joint/combined environment.

(d) Coordinates the activities of support personnel, manages equipment, readiness reporting, resource management, training, and evaluations for BMD systems.

h. *Grading and position titles.* The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(1) *Table 8-140X-1. Standards of grade TOE/MTOE.*

(2) *Table 8-140X-2. Standards of grade TDA. (NA)*

8-150A. Military Occupational Specialty 150A--Air Traffic and Air Space Management Technician (Effective 202405)

a. *Licensing/certification requirement.* Air Traffic Safety Oversight Service (AOV) FAA Credential or FAA Form 7220-1 (Air Traffic Control Specialist Certificate) (This form can be obtained from Hq, FAA, Air Traffic Control Resource Management Program, ATTN: ATX-10, 800 Independence Ave, SW Washington, DC 20024).

b. *Prerequisites.* DA Cir 601 series.

c. *MOS 150A.* MOS 150A is an accession MOS. The enlisted feeder MOS is 15Q.

d. *Associated SQI.*

(1) 0--No special qualifications.

(2) 8--Instructor.

(3) B—Aviation Safety Officer.

(4) P—Parachutist.

(5) T—Transition (personnel only).

(6) Z—Research, Development, Test, and Evaluation Technician.

e. *Associated ASI Additional skill identifiers.* (Refer to table 6-6 (Listing of universal ASI's associated with all warrant officer MOS)).

(1) 5A--Joint Air Tactical Operations Officer.

(2) 5U--Air Operations Officer.

(3) C8--Air Defense Airspace Management (ADAM) / Brigade Aviation Element (BAE) (Effective 201710).

(4) G8--Aviation Safety Officer.

f. Physical demands rating and qualifications for initial awarding of MOS 150A

(1) *WO1/CW2 must--*

(a) Successfully complete the Aviation Warrant Officer Basic Course.

(b) Meet vision and hearing standards of AR 40-501 for assignment of warrant officer to Aviation Branch, normal color discrimination per AR 40-501 and have full use of both hands.

(c) Be a U.S. citizen. Qualify for at least an interim SECRET eligibility security clearance.

(d) Graduate from a military air traffic control (ATC) school.

(e) Possess a FAA Form 7220-1 or Air Traffic Safety Oversight Service (AOV) FAA Credential, with a facility rating in either a control tower or in a radar air traffic control facility.

(f) Meet medical qualifications.

1. Meet the medical examination requirements of Class 4 ATC Duties AR 40-501.

(a) A physical demand Rating of Moderate

(b) Color discrimination of red/green

(c) Qualifying Scores

(1) A minimum OPAT score of Long Jump (LJ)-0120cm, Seated Power Throw (PT)-0350cm, Strength Deadlift (SD)-0120 lbs, and Interval Aerobic Run (IR)-0036 shuttles in Physical Demand Category in "Moderate" (Gold).

2. Maintain height and weight standards per AR 600-9 and AR 40-501.

3. Complete the Aviation Warrant Officer Basic Course (AVWOC).

4. Complete the Air Traffic Services Technician MOS Qualification Course.

(2) *CW3 must--*

(a) Meet qualifications described in paragraph f(1) above.

(b) Be commissioned to hold a platoon leader position.

(c) Successfully complete the Aviation Warrant Officer Advanced Course (AVWOAC).

(3) *CW4 must--*

(a) Meet qualifications described in paragraph f(1) and f(2) above.

(b) Successfully complete the Warrant Officer Staff Course (WOSC).

(4) *CW5 must--*

(a) Meet qualifications described in paragraph f(1), f(2) and f(3) above.

(b) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).

g. *Duties.*

(1) *WO1/CW2--*

- (a) Manages and supervises enlisted ATC personnel.
- (b) Is thoroughly knowledgeable of procedures and standards for the separation and control of aircraft, airports and airspace.
- (c) Develops, revises, and reviews terminal instrument and instrument enroute procedures (TERPS) for combat support application and fixed base requirements. Assist in the development and revision of control zones, restricted areas, transition areas, and other special use airspace.
- (d) Provides technical expertise pertaining to the operation of all types of ATC fixed base and combat support equipment.
- (e) Applies the standards, time limitations, and policies for the issuance of controller qualification, certification, and facility ratings to Army ATC personnel. Apply procedures for the cancellation, suspension, or reissue and withdrawal of certificates and facility ratings.
- (f) Manages the Army maintenance management system as it relates to maintenance of TDA ATC equipment.
- (g) Follows safety requirements as related to all aspects of maintenance activities.

(2) *CW3--*

- (a) Performs duties described in paragraph g(1)(a) through (g) above.
- (b) Analyzes Army ATC/aviation mishaps to assist in determining causative factors.
- (c) Reviews Army and federal training requirements. Submit recommendations pertaining to program standardization of ATC testing, soldier's manuals, ARTEPS and nonresident ATC courses.
- (d) Provides technical expertise regarding technical and operational standards for space requirements and equipment layouts for ATC improvements. Recommends changes to criteria governing establishment and discontinuance of ATC services and facilities.

(3) *CW4--*

- (a) Performs the duties described in paragraph g(2)(a) through (d) above.
- (b) Plans, monitors and evaluates ATC operations, processes and procedures, and ATC materiel readiness status. Provide guidance and technical input to subordinate ATC elements and other staff elements.
- (c) Performs duties pertaining to resource management and ATC equipment procurement activities.

(4) *CW5--*

- (a) Performs duties required in paragraph g(3)(a) through (c) above.
- (b) Provides guidance, advice and counsel to commanders and other staff members.
- (c) Provides guidance and technical input to subordinate ATC element and other staff elements and commanders at all levels.
- (d) As a training system integrator, develops and evaluates course content and provides technical training advice and guidance pertaining to area of technical specialty.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate.

(2) *Table 8-150A-1. Physical requirements.*

(3) Authorized position titles are provided in tables 6-2 and 6-3 of this regulation. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (1) *Table 8-150A-2. Standards of grade TOE/MTOE.*
- (2) *Table 8-150A-3. Standards of grade TDA.*

8-150. MOS 150U--Unmanned Aircraft Systems Operations Technician

a. Licensing/certification requirements. None.

b. Prerequisite. DA Cir 601 series.

c. MOS 150U. MOS 150U is an accession MOS. The enlisted feeder MOS is 15W and 15E. 15W candidates must be qualified as a Vehicle Air Operator (AO)/Mission Payload Operator (PO) in one of the following UAS: Hunter, Shadow, or ERMP. Warrant officer application packet will be reviewed by Aviation Personnel Propriety. Must be selected by the Warrant Officer Panel.

(1) 0--No special qualifications.

(2) 8--Instructor.

(3) B--Aviation Safety Officer.

(4) P--Parachutist.

(5) T--Transition.

(6) Z--Research, Development, Test and Evaluation.

d. Associated ASI. (Refer to table 6-6 (Listing of universal ASI's associated with all warrant officer MOS)).

(1) 5A--Joint Air Tactical Operations Officer.

(2) 5U--Air Operations Officer.

(3) C8--Air Defense Airspace Management (ADAM) / Brigade Aviation Element (BAE) (Effective 201710).

(4) G3—Air Cavalry Leaders Course.

(5) Q6--Protection Cell Operations (personnel only) (Effective 202410).

e. Physical demands rating and qualifications for initial awarding of MOS 150U.

(1) WO1/CW2 must--

(a) Successfully complete the Aviation Warrant Officer Basic Course.

to Aviation Branch, normal color discrimination per AR 40-501 and have full use of both hands.

(c) A physical demand Rating of Moderate (GOLD).

(d) Qualifying Scores. A minimum OPAT score of Long Jump (LJ)-0120cm, Seated Power Throw (PT)-0350cm, Strength Deadlift (SD)-0120 lbs., and Interval Aerobic Run (IR)-0036 shuttles in Physical Demand Category in "Moderate" (Gold).

(e) Must be a U.S. citizen and possess at least an interim SECRET eligibility prior to warrant officer candidate school.

(f) Successfully complete the TUAS operations technician training for award of MOS 150U.

(2) CW3 must--

(a) Meet qualifications listed in paragraph f (1).

(b) Successfully complete the Aviation Warrant Officer Advanced Course.

(3) CW4 must--

(a) Meet qualifications listed in paragraph f (2).

(b) Successfully complete the Warrant Officer Staff Course.

(4) CW5 must--

(a) Meet qualifications listed in paragraph f (3).

(b) Must successfully complete the Warrant Officer Senior Staff Course.

f. Duties.

(1) WO1/CW2--

(a) Supervise TUAS operations, to include mission planning, mission payload operation, launching, remotely piloting, and recovering.

(b) Maintains a detailed knowledge of airspace requirements to plan flight missions within acceptable mission profiles.

(c) Coordinates with higher and subordinate units for employment of TUAS missions.

(d) Develops and implements a TUAS standardization and safety program per all applicable regulations.

(e) Establishes and maintains a unit level Aircrew Training Program (ATP).

(f) Supervises employment of TUASs to conduct air reconnaissance/target detection or target engagement.

(2) CW3--

(a) Performs all duties outlined in paragraph g(1).
(b) Develops and instructs newly appointed warrant officers during their entry level training.

- (3) CW4--Performs all duties outlined in paragraph g (2).
- (4) CW5--Performs all duties outlined in paragraph g (3).

g. Grading and position titles. Authorized position titles are provided in tables 6-2 and 6-3. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade table:

- (1) *Table 8-150U-1.* Standards of grade TOE/MTOE.
- (2) *Table 8-150U-2.* Standards of grade TDA.

h. Physical requirements and standards of grade. Physical requirements and SG relating to each skill level are listed in the following table:

- (1) *Table 8-150U-3.* Physical requirements.

8-151. Military Occupational Specialty 151A--Aviation Maintenance Technician (Nonrated)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Cir 601 series.
- c. *MOS 151A.* MOS 151A is an accession MOS. The enlisted feeder MOS are all CMF 15 Soldiers.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) B--Aviation Safety Officer.
 - (4) E--Aircraft Armament Maintenance Officer. (Rescind 201610)
 - (5) P--Parachutist.
 - (6) T--Transition (personnel only).
 - (7) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.*
 - (1) 1X--Green Belt in Lean Six Sigma (personnel only).
 - (2) 1Y--Black Belt in Lean Six Sigma (personnel only).
 - (3) 1Z--Master Black Belt in Lean Six Sigma (personnel only).
 - (4) 2B--Air Assault (personnel only).
 - (5) 3R--Force Management.
 - (6) 5W--Jumpmaster (personnel only).
 - (7) 6M--Mobilization and Demobilization Operations.
 - (8) 6P--Master Fitness Trainer.
 - (9) 6T--Military Auditor (Reserve Component personnel only).
 - (10) 7Q--Training Development.
 - (11) G8--Aviation Safety Officer.
 - (12) H1--Aircraft Armament Maintenance Officer. (Not for use with positions coded with SQI E). (Rescind 201610).
 - (13) H2--Aviation Life Support Equipment Officer.
- f. *Physical demands rating and qualifications for initial awarding of MOS 151A*
 - (1) *WO1/CW2 must--*
 - (a) Successfully complete the Aviation Warrant Officer Basic Course.
 - (b) Meet vision and hearing standards of AR 40-501 for assignment of warrant officer to Aviation Branch, normal color discrimination per AR 40-501 and have full use of both hands.
 - (c) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (d) Meet medical qualifications.
 - 1. The medical examination requirements in AR 40-501 must be met.
 - (a) Physical demand Rating of Moderate (Gold)
 - (b) Qualifying Scores
 - (1) A minimum OPAT score of Long Jump (LJ)-0120cm, Seated Power Throw (PT)-0350cm, Strength Deadlift (SD)-0120 lbs., and Interval Aerobic Run (IR)-0036 shuttles in Physical Demand Category in 'Moderate' (Gold).
 - (c) Maintain height and weight standards per AR 600-9 and AR 40-501.
 - (d) Successfully complete the Aviation Maintenance Warrant Officer Technical Certification Course.
 - (e) Be commissioned upon promotion to CW2.
- (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f (1) above.
 - (b) Successfully complete the Aviation Warrant Officer Advanced Course (AVWOAC).
- (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f (1) and f (2) above.
 - (b) Successfully complete the Warrant Officer Staff Course (WOSC).
- (4) *CW5 must--*
 - (a) Meet qualifications listed in paragraph f (1), f (2), and f (3) above.
 - (b) Successfully complete WOSSC.

- g. *Duties.*

(1) *WO1/CW2--*

(a) Manages aircraft maintenance based on a thorough knowledge of aircraft maintenance requirements for power plants, power trains, electrical systems, avionics, armament systems, mechanics and pneumdraulics.

(b) Manages removal, disassembly, inspection, repair, assembly, installation, maintenance operational checks and adjustments of aircraft structures, components and subsystems.

(c) Manages the maintenance of technical publication libraries.

(d) Ensures compliance with regulations governing forms, records and reports pertaining to aircraft maintenance.

(e) Manages aircraft repair parts and supply procedures.

(f) Directs the development of aircraft repair parts and spares stock-age levels to ensure mission accomplishment and sustainment.

(g) Directs the use of tools, measuring, and diagnostic equipment to isolate faults in aircraft systems and subsystems.

(h) Ensures quality control procedures are observed during aviation maintenance.

(i) Directs use of computer systems and software for maintenance and supply requesting, reporting and management.

(2) *CW3--*Performs duties described in paragraph g (1) (a) through (i) above.

(3) *CW4--*

(a) Performs duties described in paragraph g (2) above.

(b) As an AVIM battalion aviation materiel officer monitors and evaluates aircraft maintenance operations, processes and procedures, and aviation materiel readiness status. Provides guidance and technical input to subordinate aviation maintenance elements and other staff elements.

(c) Manages production control of aviation intermediate maintenance.

(d) Provides technical advice to allied services using U.S. Army aircraft.

(e) Performs duties pertaining to resource management and aircraft procurement activities.

(4) *CW5--*

(a) Performs duties described in paragraph g(3)(a) through (e) above.

(b) Provides guidance and technical input to subordinate aviation maintenance elements and other staff elements and commanders at all levels.

h. *Grading and position titles.* Authorized position titles are provided in tables 6-2 and 6-3. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(1) *Table 8-151A-1.* Standards of grade TOE/MTOE.

(2) *Table 8-151A-2.* Standards of grade TDA.

8-152. Military Occupational Specialties

MOS 152B--OH-58A/C Scout Pilot; 152C--OH-6 Pilot; 152D--OH-58D Pilot; 152E—AH-64E Pilot; 152F--AH-64A Attack Pilot; 152H--AH-64D Attack Pilot.

a. *Licensing/certification requirements.* None.

b. *Prerequisites.* DA Cir 601 series.

c. MOS 152C is a non-accession MOS. MOS 152B, 152D, 152E, 152F, and 152H are accession MOS with all enlisted MOS performing as feeder MOS. MOS 152B, 152D, 152E, 152F, and 152H may be substituted for MOS 153A CW5 positions at all levels.

d. *Associated SQI.*

- (1) 0--No special qualifications.
- (2) 8--Instructor.
- (3) B--Aviation Safety Officer.
- (4) C--Instructor Pilot.
- (5) F--Senior Instructor Pilot and Instrument Flight Examiner.
- (6) G--Aviation Maintenance Officer.
- (7) H--Standardization Instructor Pilot.
- (8) I--Tactical Operations Officer.
- (9) L--Maintenance Test Flight Evaluator.
- (10) P--Parachutist.
- (11) T--Transition (personnel only).
- (12) Z--Research, Development, Test, and Evaluation Officer.

e. *Associated ASI.* (Refer to table 6-6 (Listing of universal ASI's associated with all warrant officer MOS)).

- (1) 5A--Joint Air Tactical Operations Officer.
- (2) 5U--Air Operations Officer.
- (3) A2--OH-58A/C Scout Pilot (not for use with positions coded with MOS 152B).
- (4) B4--UH-72A Pilot.
- (5) D7--AH-64D (for use with positions coded with MOS 152H and 153A only).
- (6) D8 – Government Flight Representative (GFR) (for use with positions coded with MOS 152E and 152H only).
- (7) D9--AH-64E Pilot (for use with positions coded with MOS 153A).
- (8) G2--Instructor Pilot (not for use with positions coded with SQI C).
- (9) G7--Aviation Related.
- (10) G8--Aviation Safety Officer (not for use with positions coded with SQI B).
- (11) H2--Aviation Life Support Equipment Officer.
- (12) H8--Master Gunner.

(13) K2 – SOA AH-6 (Attack) Pilot for use with 152C only (Effective 202510 Personnel only, Effective 202610 Personnel and Positions).

(14) K3 – SOA MH-6 (Assault) Pilot for use with 152C only (Effective 202510 Personnel only, Effective 202610 Personnel and Positions).

(15) K4--Special Operations Aviation (indicates OH/MH/AH-6 Pilot when used in conjunction with MOS 152C).

(16) Q6--Protection Cell Operations (personnel only) (for use with MOS 152C, 152E and 152H) (Effective 202410).

f. Physical demands rating and qualifications for initial awarding of MOS 152BCDEFH

(1) *WO1/CW2 must--*

(a) Be a U.S. citizen. Qualify for a security eligibility of SECRET.

(b) Meet medical qualifications. WO1 and CW2 must--

1. Initially meet the medical examination requirements of Class I medical standards as prescribed by AR 40-501.

(a) A physical demand Rating of "Moderate" (Gold)

(b) A physical profile of 111121

(c) Color discrimination of red/green

(d) Correctable distant vision acuity 20/50 near vision acuity Correctable 20/20 in each eye.

(e) Qualifying Scores

(1) A minimum OPAT score of Long Jump (LJ)-0120cm, Seated Power Throw (PT)-0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category in “Moderate” (Gold).

(2) 40 or above on Selection Instrument for Flight Test (SIFT)

2. Maintain Class II medical standards once an officer is on flight status.

(c) Maintain height and weight standards per AR 600-9 and AR 40-501.

(d) Successfully complete the Warrant Officer Technical Certification Course (IERW for 152).

(e) Successfully complete the appropriate aircraft qualification training.

(f) Be commissioned upon promotion to CW2.

(2) *CW3 must-*

(a) Meet qualifications listed in paragraph f(1) above.

(b) Successfully complete the Aviation Warrant Officer Advanced Course (AVWOAC).

(3) *CW4 must-*

(a) Meet qualifications listed in paragraph f(2) above unless awarded ASI G7 through board action.

(b) Successfully complete the Warrant Officer Staff Course (WOSC).

(4) *CW5 must-*

(a) Meet qualifications listed in paragraph f(3) above unless awarded ASI G7 through board action.

(b) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).

g. Duties.

(1) *WO1/CW2--*

(a) Plans flights, ascertains factors such as load, weight, fuel supply, route, altitudes or schedules as necessary to safely accomplish mission.

(b) Supervises loading and unloading of aircraft to ensure load stability, balance and adherence to aircraft load limitations.

(c) Pilots and commands assigned aircraft under tactical and non-tactical conditions for military purposes.

(d) Conducts pre/post-tactical mission briefings.

(e) Performs aerial evasive maneuvers.

(f) Trains personnel to engage hostile forces with aircraft armament systems.

(g) Maintains Aircrew Training Program requirements in appropriate aircraft.

(h) Detects satisfactory and unsatisfactory aircraft system or flight performance.

(i) Executes emergency operating procedures for assigned aircraft.

(2) *CW3--*

(a) Performs duties described in paragraph g(1)(a) through (n) above.

(b) Manages maintenance personnel, tech supply, ground support equipment and facility assets to maintain, repair, test fly, and recover rotary wing aircraft.

(3) *CW4--*

(a) Performs duties described in paragraph g(1)(a) through (b) above.

(b) As an IP, ASO or MTP in Special Operations Aviation also performs duties described in paragraph g(2)(c) through (h).

(4) *CW5--*

(a) Performs duties required in paragraph g(1)(a) through (b).

(b) As a SIP, ASO, MTFE or tactical operations officer in Special Operations Aviation.

h. Physical demands category, grading and position titles.

(1) Physical Demands Category (PDC) – Moderate.

(2) *Table 8-152BCDEFH-1.* Physical requirements.

(3) Authorized titles are provided in tables 6-2 and 6-3. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(1) *Table 8-152B-2.* Standards of grade TOE/MTOE.

(2) *Table 8-152B-3.* Standards of grade TDA.

(3) *Table 8-152C-2.* Standards of grade TOE/MTOE.

(4) *Table 8-152C-3.* Standards of grade TDA.

(5) *Table 8-152D-2.* Standards of grade TOE/MTOE.

- (6) *Table 8-152D-3.* Standards of grade TDA.
- (7) *Table 8-152E-2.* Standards of grade TOE/MTOE.
- (8) *Table 8-152E-3.* Standards of grade TDA.
- (9) *Table 8-152F-2.* Standards of grade TOE/MTOE.
- (10) *Table 8-152F-3.* Standards of grade TDA.
- (11) *Table 8-152H-2.* Standards of grade TOE/MTOE.
- (12) *Table 8-152H-3.* Standards of grade TDA.

8-153. MOS 153A--Rotary Wing Aviator (Aircraft Nonspecific); 153D--UH-60 Pilot, 153E--MH-60 Pilot, 153L--UH-72A Pilot (RC only) and 153M--UH-60M Pilot

a. *Licensing/certification requirements.* None.

b. *Prerequisites.* DA Cir 601 series.

c. MOS 153D, 153E, 153L and 153M are accession MOS with all enlisted MOS performing as feeder MOS. MOS 153A and 153E are non-accession MOS. MOS 153B, 153D, 153E, 153L and 153M may be substituted for MOS 153A CW5 positions at all levels. ASI G9 will be used to ensure individuals assigned to 153A positions are qualified in one of the organizations or subordinate commands aircraft.

d. *Associated SQI.*

- (1) 0--No special qualifications.
- (2) 8--Instructor.
- (3) B--Aviation Safety Officer.
- (4) C--Instructor Pilot.
- (5) D--Aeromedical Evacuation Pilot.
- (6) F--Senior Instructor Pilot and Instrument Flight Examiner.
- (7) G--Aviation Maintenance Officer.
- (8) H--Standardization Instructor Pilot.
- (9) I--Tactical Operations Officer.
- (10) J--Engineering Test Pilot (not for use with MOS 153A only).
- (11) L--Maintenance Test Flight Evaluator.
- (12) P--Parachutist.
- (13) T--Transition (personnel only).
- (14) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.* (Refer to table 6-6 (Listing of universal ASI's associated with all warrant officer MOS)).

- (1) 5A-- Joint Air Tactical Operations Officer.
- (2) 5U--Air Operations Officer.
- (3) A2--OH-58A/C Scout Pilot (for use with MOS 153A, 153B and 153D).
- (4) B2--UH-60 Pilot (for use with MOS 153A and 153E only).
- (5) B3--UH-60M Pilot (for use with MOS 153A and 153E only).
- (6) B4--UH-72A Pilot (not for use with MOS 153L only).
- (7) C8--Air Defense Airspace Management (ADAM) / Brigade Aviation Element (BAE) (for use with MOS 153A only)
- (8) D7--AH-64D Pilot (for use with MOS 153A only).
- (9) D8 – Government Flight Representative (GFR) (for use with positions coded with MOS 153A, 153D, and 153M only).
- (10) D9--AH-64E Pilot (for use with MOS 153A only).
- (11) G2--Instructor Pilot (not for use with positions coded with SQI C).
- (12) G7--Aviation Related.
- (13) G8--Aviation Safety Officer (not for use with positions coded with SQI B).
- (14) G9--Multi-Aircraft Aviation Officer (for use with MOS 153A only).
- (15) H2--Aviation Life Support Equipment Officer.
- (16) H4--Aeromedical Evacuation Pilot.
- (17) H8--Master Gunner.
- (18) K4--Special Operations Aviation (for use with MOS 153A, 153D and 153E only).
- (19) K5--MH-60 Pilot (for use with 153A, 153D, and 153E in Special Operations Aviation units only).

(20) K6--MH-47 Pilot (for use with MOS 153A in Special Operations Aviation units only).

(21) K7 – SOA MH-60 (Assault) Pilot for use with MOS 153E only (Effective 202510 Personnel Only; Effective 202610 Personnel and Positions)

(22) K8 – SOA MH-60 Defensive Armed Penetrator (DAP) Pilot for use with MOS 153E only (Effective 202510 Personnel Only; Effective 202610 Personnel and Positions).

(23) Q6--Protection Cell Operations (personnel only) (for use with MOS 153D and 153E) (Effective 202410).

f. Physical demands rating and qualifications for initial awarding of MOS 153BCDEFH .

- (1) *WO1/CW2 must--*

SECRET.

(a) For MOS 153A, 153B, 153D: Be a U.S. citizen. Qualify for a security eligibility of
(b) For MOS 153E: Be a U.S. citizen. Qualify for a security eligibility of TOP SECRET.

(c) Meet medical qualifications. WO1 and CW2 must--

1. Initially meet the medical examination requirements of Class I medical standards as prescribed by AR 40-501.
 - (a) A physical demand Rating of Moderate (Gold)
 - (b) A physical profile of 111121
 - (c) Color discrimination of red/green
 - (d) Correctable distant vision acuity 20/50 near vision acuity Correctable 20/20 in each eye
 - (e) Qualifying Scores
 - (1) A minimum OPAT score of Long Jump 9LJ)-0120cm, Seated Power Throw (PT)-0350cm, Strength Deadlift (SD)-0120 lbs., and Interval Aerobic Run (IR)-0036 shuttles in Physical Demand Category in "Moderate" (Gold).
 - (2) 40 or above on selection Instrument for Flight Test (SIFT)
 2. Class II medical standards must be maintained once an officer is on flight status.
- (d) Maintain height and weight standards per AR 600-9 and AR 40-501.
- (e) Successfully complete the Warrant Officer Technical Certification Course (IERW for AOC MOS152 thru 155).
- (f) Successfully complete the appropriate aircraft qualification training.
- (g) Be commissioned upon promotion to CW2.

(2) CW3 must--

- (a) Meet qualifications listed in paragraph f(1) above.
- (b) Successfully complete the Aviation Warrant Officer Advanced Course (AVWOAC).

(3) CW4 must--

- (a) Meet qualifications listed in paragraph f(2) above unless awarded ASI G7 through board action.
- (b) Successfully complete the Warrant Officer Staff Course (WOSC).

(4) CW5 must--

- (a) Meet qualifications listed in paragraph f(3) above.
- (b) Meet qualifications listed in paragraph f(1)(b) above unless awarded ASI G7 through board action.
- (c) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).

g. Duties.

(1) WO1/CW2--

- (a) Plans flights, ascertains factors such as load, weight, fuel supply, route, altitudes or schedules as necessary to safely accomplish mission.
- (b) Supervises loading and unloading of aircraft to ensure load stability, balance, and adherence to aircraft load limitations.
- (c) Pilots and commands assigned aircraft under tactical and nontactical conditions for military purposes.
- (d) Conducts pre/post-tactical mission briefings.
- (e) Performs aeromedical evacuation missions.
- (f) Performs external load missions.
- (g) Performs aerial evasive maneuvers.
- (h) Trains to engage hostile forces with aircraft armament subsystems.
- (i) Conducts electronic warfare signal intelligence (EW/SIGINT) missions (MOS 153A and 153D only with SQI 9).
- (j) Maintains Aircrew Training Program requirements in appropriate aircraft.
- (k) Detects satisfactory and unsatisfactory aircraft system or flight performance.
- (l) Executes emergency operating procedures for assigned aircraft.

(2) CW3--

- (a) Performs duties described in paragraph g(1)(a) through (1) above.
- (b) Performs duties as an aircraft armament maintenance officer on MH-60 aircraft.

(3) CW4--

- (a) Performs duties described in paragraph g(1)(a) through (b).
- (b) As an IP, ASO, MTP or tactical operations officer in Special Operations Aviation.

(4) **CW5--**

- (a) Performs duties required in paragraph g (1) (a) through (b).
- (b) Performs duties as a SIP, ASO, MTFE or tactical operations officer in special operations aviation.

h. *Physical demands category, grading and position titles.*

- (1) Physical Demands Category (PDC) – 153B – Moderate; 153ADELM – Moderate.
- (2) *Table 8-153ABDELM-1.* Physical requirements.
- (3) Authorized position titles are provided in tables 6-2 and 6-3. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4 and W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (1) *Table 8-153A-2.* Standards of grade TOE/MTOE.
 - (2) *Table 8-153A-3.* Standards of grade TDA.
 - (3) *Table 8-153B-2.* Standards of grade TOE/MTOE.
 - (4) *Table 8-153B-3.* Standards of grade TDA.
 - (5) *Table 8-153D-2.* Standards of grade TOE/MTOE.
 - (6) *Table 8-153D-3.* Standards of grade TDA.
 - (7) *Table 8-153E-2.* Standards of grade TOE/MTOE.
 - (8) *Table 8-153E-3.* Standards of grade TDA.
 - (9) *Table 8-153L-2.* Standards of grade TOE/MTOE.
 - (10) *Table 8-153L-3* Standards of grade TDA.
 - (11) *Table 8-153M-2.* Standards of grade TOE/MTOE.
 - (12) *Table 8-153M-3.* Standards of grade TDA.

8-154. Military Occupational Specialty 154C--CH-47D Pilot, 154E--MH-47 Pilot and 154F--CH-47F Pilot

a. *Licensing/certification requirements.* None.

b. *Prerequisites.* DA Cir 601 series.

c. MOS 154C and 154F are accession MOS with all enlisted MOS performing as feeder MOS. MOS 154E is a non-accession MOS. MOS 154C, 154E and 154F may be substituted for MOS 153A CW5 positions at all levels.

d. *Associated SQI.*

- (1) 0--No special qualifications.
- (2) 8--Instructor.
- (3) B--Aviation Safety Officer.
- (4) C--Instructor Pilot.
- (5) F--Senior Instructor Pilot and Instrument Flight Examiner.
- (6) G--Aviation Maintenance Officer.
- (7) H--Standardization Instructor Pilot.
- (8) I--Tactical Operations Officer.
- (9) J--Engineering Test Pilot.
- (10) L--Maintenance Test Flight Evaluator.
- (11) P--Parachutist.
- (12) T--Transition (personnel only).
- (13) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI (Refer to table 6-6 for (list of universal ASI's associated with this MOS)).*

- (1) 5A--Joint Air Tactical Operations Officer.
- (2) 5U--Air Operations Officer.

- (3) B2--UH-60 Pilot.
- (4) B4--UH-72A Pilot.

(5) C3--CH-47F Pilot (for use with MOS 154E only).

(6) D8 – Government Flight Representative (GFR) (for use with positions coded with MOS 154C and 154F only).

(7) G2--Instructor Pilot (not for use with positions coded with SQI C).

(8) G7--Aviation Related.

(9) G6--Aviation Maintenance Officer (for use with positions MOS 152 through 153).

(10) G8--Aviation Safety Officer (not for use with positions coded with SQI B).

(11) H2--Aviation Life Support Equipment Officer.

(12) H8--Master Gunner.

(13) K4--Special Operations Aviation (for use with MOS 154C and 154E only; indicates MH-47 Pilot when used with MOS 154C or 154E).

(14) K6--MH-47 Pilot (for use with MOS 153A, 154C and 154E in Special Operations units only).

(15) Q6—Protection Cell Operations (personnel only) (for use with MOS 154E and 154F)

(Effective 202410).

f. *Physical demands rating and qualifications for initial awarding of MOS 154CEF*

(1) *WO1/CW2 must--*

- (a) For MOS 154C: Be a U.S. citizen. Qualify for a security eligibility of SECRET.
- (b) For MOS 154E: Be a U.S. citizen. Qualify for a security eligibility of TOP SECRET.
- (c) Meet medical qualifications. WO1 and CW2 must--

1. Initially meet the medical examination requirements of Class 1 medical standards as prescribed by AR 40-501.

- (a) A physical demand Rating of Moderate (Gold)
- (b) A physical profile of 111121
- (c) Color discrimination of red/green
- (d) Correctable distant vision acuity 20/50 near vision acuity Correctable 20/20 in each eye.

(e) Qualifying Scores

(1) A minimum OPAT score of Long Jump (LJ)-0120cm, Seated Power Throw (PT)- 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category in “Moderate” (Gold).

(2) 40 or above on Selection Instrument for Flight Test (SIFT)

2. Class II medical standards must be maintained once an officer is on flight status.

(d) Maintain height and weight standards per AR 600-9 and AR 40-501.

(e) Successfully complete the Warrant Officer Technical Certification Course (IERW for MOS 152 through 155).

(f) Successfully complete the appropriate aircraft qualification training.

(g) Be commissioned upon promotion to CW2.

(2) **CW3 must-**

(a) Meet qualifications listed in f(1)above.

(b) Successfully complete the Aviation Warrant Officer Advanced Course (AVWOAC).

(3) **CW4 must-**

(a) Meet qualifications listed in paragraph f(1)(a), f(1)(c), f(1)(d), f(1)(e), and f(2)(c) above.

(b) Meet qualifications listed in paragraph f(1)(b) above unless awarded ASI G7 through board action.

(c) Successfully complete the Warrant Officer Staff Course (WOSC).

(4) **CW5 must-**

(a) Meet qualifications listed in paragraph f(3) above.

(b) Meet qualifications listed in paragraph f(1)(b) above unless awarded ASI G7 through board action.

(c) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).

g. Duties

(1) **WO1/CW2--**

(a) Plans flights, ascertains factors such as load, weight, fuel supply, route, altitudes or schedules as necessary to safely accomplish mission.

(b) Supervises loading and unloading of aircraft to ensure load stability, balance and adherence to aircraft load limitations.

(c) Pilots and commands assigned aircraft under tactical and non-tactical conditions for military purposes.

(d) Conducts pre/post-tactical mission briefings.

(e) Performs aeromedical evacuation missions.

(f) Performs external load missions.

(g) Performs water-landing missions.

(h) Performs aerial evasive maneuvers.

(i) Trains personnel to engage hostile forces with aircraft armament subsystems.

(j) Maintains Aircrew Training Program requirements in appropriate aircraft.

(k) Detects satisfactory and unsatisfactory aircraft system or flight performance.

(l) Executes emergency operating procedures for assigned aircraft.

(2) **CW3--**

(a) Performs duties described in paragraph g(1)(a) through (l) above.

(b) Performs duties as an aircraft armament maintenance officer on MH-47 aircraft.

(3) **CW4--**

(a) Performs duties described in paragraph g(1)(a) through (b) above.

(b) Performs duties as an IP, ASO, MTP or tactical operations officer in Special Operations Aviation.

(4) **CW5--**

(a) Performs duties as described in paragraph g(1)(a) through (b) above.

(b) Performs duties as a SIP, ASO, MTFE or tactical operations officer in special operations aviation.

h. Physical demands category, grading and position titles.

(1) Physical Demands Category (PDC) – Moderate.

(2) *Table 8-154CEF-1. Physical requirements.*

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (1) *Table 8-154C-2.* Standards of grade TOE/MTOE.
- (2) *Table 8-154C-3.* Standards of grade TDA.
- (3) *Table 8-154E-2.* Standards of grade TOE/MTOE.
- (4) *Table 8-154E-3.* Standards of grade TDA.
- (5) *Table 8-154F-2.* Standards of grade TOE/MTOE.
- (6) *Table 8-154F-3.* Standards of grade TDA.

8-155. Military Occupational Specialties

MOS 155A--Fixed Wing Aviator (Aircraft Nonspecific); 155E--C-12 Pilot, 155F--Jet Aircraft Pilot and 155G--O-5A/EO-5B/RC-7 Pilot.

- a. *Licensing/certification requirements.* None.
- b. *Prerequisite.* DA Cir 601 Series.
- c. MOS 155A, 155E, 155F, and 155G are non-accession MOS. All MOSSs at the WO1 and CW2 level in AOCs 152, 153 or 154 are feeder MOS for 155A, 155E, 155F, and 155G. MOS 155E, 155F and 155G may be substituted for MOS 155A CW5 positions at all levels.
- d. *Associated SQI*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) B--Aviation Safety Officer.
 - (4) C--Instructor Pilot.
 - (5) F--Senior Instructor Pilot and Instrument Flight Examiner.
 - (6) G--Aviation Maintenance Officer.
 - (7) H--Standardization Instructor Pilot.
 - (8) I--Tactical Operations Officer.
 - (9) J--Engineering Test Pilot.
 - (10) L--Maintenance Test Flight Evaluator.
 - (11) P--Parachutist.
 - (12) T--Transition (personnel only).
 - (13) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI* (Refer to table 6-6 for (list of universal ASI's associated with this MOS)).
 - (1) 5A--Joint Air tactical Operations Officer.
 - (2) 5U--Air Operations Officer.
 - (3) B2--UH-60 Pilot.
 - (4) D8 – Government Flight Representative (GFR)
 - (5) E1--UC-35 Pilot (for use with MOS 155A and 155F only).
 - (6) E7--C-23 Pilot.
 - (7) E8--C-26 Pilot.
 - (8) E9--FCA-XX Pilot.
 - (9) F3--RC-12D/G/H Pilot.
 - (10) F4--RC-12K/N Pilot. (**Rescind 202610**)
 - (11) F5--O-5A/EO-5B/RC-7 Pilot (not for use with MOS 155G).
 - (12) F6 –MC-12 Pilot (for use with MOS 155A and 155E only).
 - (13) G2--Instructor Pilot (not for use with positions coded with SQI C).
 - (14) G7--Aviation Related (authorized for grades CW3 and above).
 - (15) G8--Aviation Safety Officer (not for use with positions coded with SQI B).
 - (16) H2--Aviation Life Support Equipment Officer.
- f. Physical demands rating and qualifications for initial awarding of MOS 155AEFG.
 - (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (b) *Meet medical qualifications.* WO1 and CW2 must--
 1. Initially meet the medical examination requirements of Class I medical standards as prescribed by AR 40-501.
 - (a) A physical demand Rating of Moderate (GOLD)
 - (b) A physical profile of 111121
 - (c) Color discrimination of red/green
 - (d) Correctable distant vision acuity 20/50 near vision acuity Correctable 20/20 in each eye
 - (e) Qualifying Scores
 - (1) A minimum OPAT score of Long Jump (LJ)-0120cm, Seated Power Throw (PT)-0350cm, Strength Deadlift (SD)-0120 lbs., and Interval Aerobic Run (IR)-0036 shuttles in Physical Demand Category in "Moderate" (Gold).
 - (2) 40 or above on selection Instrument for Flight Test (SIFT)
 - 2. Class II medical standards must be maintained once an officer is on flight status.

- (c) Maintain height and weight standards per AR 600-9 and AR 40-501.
- (d) Successfully complete the Warrant Officer Technical Certification Course (IERW for AOC MOS152 through 155).
- (e) Successfully complete the appropriate aircraft qualification training.
- (f) Be commissioned upon promotion to CW2.

(2) *CW3 must--*

- (a) Meet qualifications listed in paragraph f(1) above.
- (b) Successfully complete the Aviation Warrant Officer Advanced Course (AVWOAC).

(3) *CW4 must--*

- (a) Meet qualifications listed in paragraph f(1) above unless awarded ASI G7 through board action.
- (b) Successfully complete the Warrant Officer Staff Course (WOSC).

(4) *CW5 must--*

- (a) Meet qualifications listed in paragraph f(3) above unless awarded ASI G7 through board action.
- (b) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).

g. *Duties.*

(1) *WO1/CW2--*

- (a) Plans flights, ascertains factors such as load, weight, fuel supply, route, altitudes or schedules as necessary to safely accomplish mission.
- (b) Supervises loading and unloading of aircraft to ensure load stability, balance and adherence to aircraft load limitations.
- (c) Pilots and commands assigned aircraft under tactical and nontactical conditions for military purposes.
- (d) Conducts pre/post-administrative and tactical mission briefings.
- (e) Performs aeromedical evacuation missions.
- (f) Performs aerial evasive maneuvers.
- (g) Maintains Aircrew Training Program requirements in appropriate aircraft.
- (h) Detects satisfactory and unsatisfactory aircraft system or flight performance.
- (i) Executes emergency operating procedures for assigned aircraft.
- (j) Performs electronic surveillance and intelligence gathering missions.

(2) *CW3 performs duties described in paragraph g(1)(a) through (i) above.*

(3) *CW4 performs duties described in paragraph g(1)(a) above.*

(4) *CW5--*

- (a) Performs duties described in paragraph g(1)(a) above.
- (b) Provides guidance, advice and counsel to commanders and other staff members.

h. *Grading and position titles.* The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (1) *Table 8-155A-2.* Standards of grade TOE/MTOE.
- (2) *Table 8-155A-3.* Standards of grade TDA.
- (3) *Table 8-155E-2.* Standards of grade TOE/MTOE.
- (4) *Table 8-155E-3.* Standards of grade TDA.
- (5) *Table 8-155F-2.* Standards of grade TOE/MTOE.
- (6) *Table 8-155F-3.* Standards of grade TDA.
- (7) *Table 8-155G-2.* Standards of grade TOE/MTOE.
- (8) *Table 8-155G-3.* Standards of grade TDA.

i. *Physical requirements and standards of grade.* Physical requirements and SG relating to each skill level are listed in the *Table 8-155AEFG.* Physical requirements.

8-155. Military Occupational Specialties

MOS 155A--Fixed Wing Aviator (Aircraft Nonspecific); 155E--C-12 Pilot, 155F--Jet Aircraft Pilot and 155G--O-5A/EO-5B/RC-7 Pilot.

- a. *Licensing/certification requirements.* None.
- b. *Prerequisite.* DA Cir 601 Series.
- c. MOS 155A, 155E, 155F, and 155G are non-accession MOS. All MOSSs at the WO1 and CW2 level in AOCs 152, 153 or 154 are feeder MOS for 155A, 155E, 155F, and 155G. MOS 155E, 155F and 155G may be substituted for MOS 155A CW5 positions at all levels.
- d. *Associated SQI*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) B--Aviation Safety Officer.
 - (4) C--Instructor Pilot.
 - (5) F--Senior Instructor Pilot and Instrument Flight Examiner.
 - (6) G--Aviation Maintenance Officer.
 - (7) H--Standardization Instructor Pilot.
 - (8) I--Tactical Operations Officer.
 - (9) J--Engineering Test Pilot.
 - (10) L--Maintenance Test Flight Evaluator.
 - (11) P--Parachutist.
 - (12) T--Transition (personnel only).
 - (13) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI* (Refer to table 6-6 for (list of universal ASI's associated with this MOS)).
 - (1) 5A--Joint Air tactical Operations Officer.
 - (2) 5U--Air Operations Officer.
 - (3) B2--UH-60 Pilot.
 - (4) D8 – Government Flight Representative (GFR)
 - (5) E1--UC-35 Pilot (for use with MOS 155A and 155F only).
 - (6) E7--C-23 Pilot.
 - (7) E8--C-26 Pilot.
 - (8) E9--FCA-XX Pilot.
 - (9) F3--RC-12D/G/H Pilot.
 - (10) F4--RC-12K/N Pilot.
 - (11) F5--O-5A/EO-5B/RC-7 Pilot (not for use with MOS 155G).
 - (12) F6 –MC-12 Pilot (for use with MOS 155A and 155E only).
 - (13) G2--Instructor Pilot (not for use with positions coded with SQI C).
 - (14) G7--Aviation Related (authorized for grades CW3 and above).
 - (15) G8--Aviation Safety Officer (not for use with positions coded with SQI B).
 - (16) H2--Aviation Life Support Equipment Officer.
 - (17) Q6--Protection Cell Operations (personnel only) (for use with MOS 155E, 155F and 155G (Effective 202410).
- f. *Physical demands rating and qualifications for initial awarding of MOS 155AEFG-*
 - (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (b) *Meet medical qualifications.* WO1 and CW2 must--
 1. Initially meet the medical examination requirements of Class I medical standards as prescribed by AR 40-501.
 - (a) A physical demand Rating of Moderate (GOLD)
 - (b) A physical profile of 111121
 - (c) Color discrimination of red/green
 - (d) Correctable distant vision acuity 20/50 near vision acuity Correctable 20/20 in each eye
 - (e) Qualifying Scores
 - (1) A minimum OPAT score of Long Jump (LJ)-0120cm, Seated Power Throw (PT)-0350cm, Strength Deadlift (SD)-0120 lbs., and Interval Aerobic Run (IR)-0036 shuttles in Physical Demand Category in "Moderate" (Gold).

- (2) 40 or above on selection Instrument for Flight Test (SIFT)
- 2. Class II medical standards must be maintained once an officer is on flight status.
- (c) Maintain height and weight standards per AR 600-9 and AR 40-501.
- (d) Successfully complete the Warrant Officer Technical Certification Course (IERW for AOC MOS152 through 155).
 - (e) Successfully complete the appropriate aircraft qualification training.
 - (f) Be commissioned upon promotion to CW2.
- (2) *CW3 must--*
 - (a) Meet qualifications listed in paragraph f(1) above.
 - (b) Successfully complete the Aviation Warrant Officer Advanced Course (AVWOAC).
- (3) *CW4 must--*
 - (a) Meet qualifications listed in paragraph f(1) above unless awarded ASI G7 through board action.
 - (b) Successfully complete the Warrant Officer Staff Course (WOSC).
- (4) *CW5 must--*
 - (a) Meet qualifications listed in paragraph f(3) above unless awarded ASI G7 through board action.
 - (b) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Plans flights, ascertains factors such as load, weight, fuel supply, route, altitudes or schedules as necessary to safely accomplish mission.
 - (b) Supervises loading and unloading of aircraft to ensure load stability, balance and adherence to aircraft load limitations.
 - (c) Pilots and commands assigned aircraft under tactical and nontactical conditions for military purposes.
 - (d) Conducts pre/post-administrative and tactical mission briefings.
 - (e) Performs aeromedical evacuation missions.
 - (f) Performs aerial evasive maneuvers.
 - (g) Maintains Aircrew Training Program requirements in appropriate aircraft.
 - (h) Detects satisfactory and unsatisfactory aircraft system or flight performance.
 - (i) Executes emergency operating procedures for assigned aircraft.
 - (j) Performs electronic surveillance and intelligence gathering missions.
 - (2) CW3 performs duties described in paragraph g(1)(a) through (i) above.
 - (3) CW4 performs duties described in paragraph g(1)(a) above.
 - (4) *CW5--*
 - (a) Performs duties described in paragraph g(1)(a) above.
 - (b) Provides guidance, advice and counsel to commanders and other staff members.
- h. *Grading and position titles.* The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (1) *Table 8-155A-1.* Standards of grade TOE/MTOE.
 - (2) *Table 8-155A-2.* Standards of grade TDA.
 - (3) *Table 8-155E-1.* Standards of grade TOE/MTOE.
 - (4) *Table 8-155E-2.* Standards of grade TDA.
 - (5) *Table 8-155F-1.* Standards of grade TOE/MTOE.
 - (6) *Table 8-155F-2.* Standards of grade TDA.
 - (7) *Table 8-155G-1.* Standards of grade TOE/MTOE.
 - (8) *Table 8-155G-2.* Standards of grade TDA.
- i. *Physical requirements and standards of grade.* Physical requirements and SG relating to each skill level are listed in the following table:
 - (1) *Table 8-155AEFG.* Physical requirements.

8-170A. Military Occupational Specialty 170A-- Cyber Warfare Technician (Effective 202507)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Pam 611-21.
- c. *MOS 170A.* MOS 170A is an accession MOS. The preferred CMF feeders are the 17, 25, and 35 Series MOSSs, however, all other enlisted MOSSs that demonstrate a strong technical background to include documented operational experience and education may apply. Applicants from other military services (Air Force, Marine Corps, and Navy) who can substantiate their qualifications with performance evaluations, awards, and certificates are encouraged to apply for MOS 170A. The proponent sets and maintains the technical qualifications for the MOS. Please refer to <https://recruiting.army.mil/ISO/AWOR/170A> for current selection criteria and proponent contact information. The Warrant Officer accessions process is available at <https://recruiting.army.mil/ISO/AWOR>; please direct any accessions related questions to the Warrant Officer Recruiting Branch at woteam@usarec.army.mil.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all Warrant Officer MOS).
- f. *Qualifications.*
 - (1) WO1/CW2 must--
 - (a) Complete the Cyber Warfare Technician Warrant Officer Basic Course.
 - (b) Be a U.S. citizen.
 - (c) Obtain a fully adjudicated TOP SECRET clearance with eligibility for access to sensitive compartmented information (SCI), prior to Warrant Officer Candidate School attendance
 - (d) Soldier must be capable of passing a counterintelligence scope polygraph (CSP) to hold the MOS. Soldiers who refuse to take or fail a CSP will be reclassified.
 - (e) Formal Training (successful completion of 170A Cyber Warfare Technician Warrant Officer Basic Course conducted under the auspices of the US Army Cyber School) is mandatory. Waiver may be granted by Commandant, US Army Cyber School, Fort Eisenhower, GA 30905-5300.
 - (f) Upon completion of 170A Cyber Warfare Technician Warrant Officer Basic Course, WO1s incur a 6 year term of service obligation.
 - (2) CW3 must--
 - (a) Meet qualifications described in paragraph f (1).
 - (b) Complete the Warrant Officer Advance Course (WOAC) for CW2(P) and CW3.
 - (3) CW4 must--
 - (a) Meet qualifications described in paragraph f (2).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE) for CW3(P) and CW4.
 - (4) CW5 must--
 - (a) Meet qualifications described in paragraph f (3).
 - (b) Complete the Warrant Officer Senior Service Education (WOSSE).
- g. *Duties.*
 - (1) WO1/CW2 must--
 - (a) Manage operational teams in support of offensive and defensive cyberspace operations.
 - (b) Plan, administer, manage, maintain, and integrate actions in support of offensive and defensive cyberspace operations.
 - (c) Establish priorities and provide guidance for collection, exploitation, analysis and reporting missions.
 - (d) Direct network terrain audits, digital forensics processes, and exploitation missions.

- (e) Advise and assist commanders and staffs in formulating plans for cyber operations.
- (f) Mentor, train, and coach Soldiers and leaders on the technical and tactical aspects of cyberspace operations.
- (g) Execute defensive cyberspace operational tasks at the senior level to identify, locate, isolate, and mitigate cyberspace threats within the DODIN.
- (h) Execute offensive cyberspace operational tasks at the senior level to prepare the operational environment, gain access, establish persistence, and deliver effects against targeted systems or infrastructure.
- (i) Inform individual training requirements for cyberspace certification.
- (j) Provide updates to unit level standard operating procedures. (2) CW3 must--
 - (a) Perform duties described in paragraph g (1).
 - (b) Validate architectural analysis, administer penetration testing, and coordinate response actions.
 - (c) Manage the execution of Cyberspace Defense; Cyber Effects Enabling Activity, and Cyberspace Effects Operations actions.
 - (d) Monitor cyberspace operations to ensure mission execution is within authority guidelines and operational risk tolerances.
 - (e) Provide post-incident analytic input and mitigation recommendations as necessary.
 - (f) Validate individual and collective training requirements that affect cyberspace operations certification.
 - (g) Support cyberspace operations team recertification processes and events through technical input, guidance, and task execution.
- (3) CW4 must--
 - (a) Perform duties described in paragraph g (2).
 - (b) Evaluate cyber defense requirements and advise in the joint targeting process.
 - (c) Provide subject matter expert advice, planning, coordination across echelon, and task execution within cyberspace operations.
 - (d) Provide cyber operations recommendations and guidance on Army, Coalition, and National policies, structures, assignments and training.
 - (e) Supervise military, civilian, and joint/coalition personnel throughout the planning, coordination, and execution of cyberspace operations.
- (4) CW5 must--
 - (a) Perform duties described in paragraph g (3).
 - (b) Advise the commander, leaders, and other forums regarding cyberspace operations, risk mitigation, friendly/threat capabilities, policies, authorities, and employment strategies across all echelons.
 - (c) Provide input regarding the readiness of cyberspace operational organizations, teams, personnel, infrastructure, and capabilities.
 - (d) Coordinate with service schools to identify mitigation strategies for knowledge and skill gaps to reduce operational training requirements.
 - (e) Provide guidance, mentorship, and direction to junior Warrant Officers within the command or organization.
 - (f) Direct mission management functions for offensive and defensive cyberspace operations.
 - (g) Develop crisis plans to directly support cyberspace operations planning and targeting.
- h. *Physical demands category, grading and position titles.*
 - (1) Physical Demands Category (PDC) – Moderate (Gold).
 - (2) Meet medical and physical standards per AR 40-501.
- (3) *Table 8-170A-1. Physical requirements - A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles.*
- (4) Authorized position titles are provided in appendixes B and C. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals

CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (a) Table 8-170A-2. Standards of grade TOE/MTOE (Not Applicable)
- (b) *Table 8-170A-3. Standards of grade TDA.*

8-170. MOS 170B - Electromagnetic Warfare (EW) Technician (Effective 202507)

a. *Licensing/certification requirements.* None.

b. *Prerequisites.* . DA PAM 611-21.

c. *MOS 170B.* MOS 170B is an accession MOS. The preferred CMF feeders are MOS 17E, 25E, 25S, 35N, 35S; however, all other enlisted MOSs that demonstrate a strong EW background to include documented operational experience and education may apply. Applicants from other military services (Air Force, Marine Corps, and Navy) who can substantiate their EW qualifications with performance evaluations, awards, and certificates, or have ASI 1A or 1C are encouraged to apply for MOS 170B. The proponent sets and maintains the technical qualifications for the MOS. Please refer to <https://recruiting.army.mil/ISO/AWOR/170B> for current selection criteria and proponent contact information. The Warrant Officer accessions process is available at <https://recruiting.army.mil/ISO/AWOR>; please direct any accessions related questions to the Warrant Officer Recruiting Branch at woteam@usarec.army.mil.

d. *Associated SQI.*

(1) 0--No special qualifications.

(2) 8--Instructor.

(3) P--Parachutist.

(4) T--Transition (personnel only).

(5) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all Warrant Officer MOS)).

f. *Qualifications.*

(1) *WO1/CW2 must--*

(a) Complete the Electromagnetic Warfare Technician Warrant Officer Basic Course.

(b) Be a U.S. citizen.

(c) Obtain a fully adjudicated TOP SECRET clearance with eligibility for access to Sensitive Compartmented Information (SCI), prior to Warrant Officer Candidate School attendance

(2) *CW3 must--*

(a) Meet qualifications listed in paragraph f(1).

(b) Complete the Electromagnetic Warfare Technician Warrant Officer Advanced Course for CW2(P) and CW3.

(3) *CW4 must--*

(a) Meet qualifications described in paragraph f(2).

(b) Complete the Warrant Officer Intermediate Level Education (WOILE) phase two (2) and three (3) for CW3(P) and CW4.

(4) *CW5 must--*

(a) Meet qualifications described in paragraph f(3).

(b) Complete the Warrant Officer Senior Service Education (WOSSE).

g. *Duties.*

(1) *WO1/CW2.* As an EW Technician :

(a) Organizes, implements, monitors, and evaluates EW operations, threat environment, unit maintenance, and intermediate level support maintenance of EW systems.

(b) Provides advice on technical and tactical employment of all assigned EW systems and tasked or requested non-organic EW systems to include Electromagnetic Attack (EA), Electromagnetic Support (ES), and Electromagnetic Protection (EP) activities.

(c) Develops, publishes, and updates EW Operations SOP incorporating current TTP.

(d) Develops and integrates measures of performance and measures of effectiveness criteria to determine EW battle damage assessment (BDA), re-engagement criteria, and alternate methods of engagement.

(e) Provides input and updates to S6 for joint restricted frequency list (JRFL) validation and employment to include spectrum deconfliction and frequency management.

(f) Implements spectrum interference reporting criteria and resolution tracking as received from higher headquarters.

(g) Recommends the use of ES for immediate target prosecution and triggering criteria and EP measures to provide resolution.

(h) Analyzes signal external parameters to identify a signal, correlate a threat, provide indications and warnings, improve the Commander's situational understanding, and to select, modify, and/or inform the development of electromagnetic countermeasures for affecting targeted communications and non-communications systems.

(i) Evaluates the technical and tactical operations of subordinate EW sections.(j) Develops and implements brigade emission control (EMCON) procedures, which includes staff coordination and SOP change publishing.

(k) Integrates EA, ES and EP into EW operations.

(l) Establishes tactics techniques and procedures for operations in a contested EW environment. In coordination with S2/S6 identify emerging EW threats or trends and develop mitigation measures to overcome new adversarial EW actions.

(m) Disseminates and monitors compliance with updated EW system load sets to assigned EW entities as issued by the Cyberspace Electromagnetic Activities (CEMA) section.

(n) Assists with technical and tactical information in order to develop and implement Appendix 12 to Annex C and associated Tabs of the Operations Order. Provide input and refinement to the S2 for the enemy tactical EW order of battle (OB) and applicable appendices to Annex B of the operations order.

(o) Liaises for subordinate EW entities to higher headquarters CEMA section for EW requests for support.

(p) Assists with technical and tactical information in order to develop and implement the routine EW training plan for EW system operators and staff sections involved in planning EW integration. Perform EW training for leaders, including the command group and key staff.

(q) Provides EW input to the intelligence, surveillance, and reconnaissance (ISR) synchronization meeting, operations and intelligence (O&I) working group, and targeting/planning meetings.

(r) Prioritizes EW requests and operations with subordinate units and requests for support from higher headquarters.

(s) Serves as the key facilitator for EW and CEMA Working Groups.

(t) Monitors and maintains EW running estimates.

(u) Resolves EA conflicts with the S2 in intelligence gain-loss considerations.

(v) Updates and disseminates changes to the enemy tactical EW OB to include associated targeting information and necessary intelligence generation.

(w)Provides technical input regarding effects requests and/or electromagnetic countermeasure development efforts.

(x) Develops and mentors EW Specialists.

(2) CW3--

(a) Performs duties described in paragraph g(1).

(b) Monitors the development of the enemy electromagnetic order of battle (EEOB) and the processing of target information and intelligence generation.

(c) Identifies and recommends solutions to EW capability gaps and limitations.

(d) Acts as the Commander's EW technical and tactical advisor.

(e) Provides EW technical expertise to subordinate units and activities involved with EA, ES, and EP operations to include maintenance of all EW systems activities.

(f) Liaises between EW specialists and the theater EWC for Joint EW support.

(g) Monitors and prioritizes the processing of EA and review EW BDA.

(h) Coordinates for and updates applicable target selection standards and disseminates to all subordinate EW entities.

(i) Assists in the development and maintenance of the operational EEOB, processing of targeting information and intelligence generation.

(3) CW4--

(a) Performs duties described in paragraph g(2).

(b) Recommends target purging criteria to the G3, EWC, and subordinate headquarters.

(c) Monitors and prioritizes the processing of EA and reviews BDA at Corps level.

(d) Synchronizes EW operations within the joint targeting cycle for Air Force, Navy, and Marine Corps EW integration into Army operations.

(e) Monitors the development of the enemy strategic EEOB and the processing of target information and intelligence generation at the strategic/operational level.

(f) Recommends the employment and directs the operation of available Theater level assets.

(g) Assists in production and application of target selection standards at Corps level.

(h) Requests targeting information from military intelligence and higher sources and evaluates information obtained through the IPB process at Corps level and disseminates to assigned organizations.

(i) Assists in the preparation of theater Emergency Action Plans, operational plans and orders and disseminates to assigned organizations.

(j) Exercises EW technical supervision of strategic and operational EW operations.

(k) Coordinates with Corps Legal section to ensure EW operations comply with law of armed conflict and rules of engagement criteria.

(4) CW5--

(a) Performs duties described in paragraph g(3).

(b) Serves as the senior technical advisor at the highest echelons of command such as HQDA, COCOMs, ASCCs, DRUs, Joint Services and allied armies in all matters pertaining to the integration of Electromagnetic Warfare capabilities.

(c) Advises the US Army CY Proponent on all matters pertaining to EW Warrant Officers professional development, career progression and Professional Military training requirements.

(d) Lliaises with CY Proponent to advise commanders on requirements for Army EW personnel and equipment, to include training and certification.

(e) Advises members of Theater Commands, CAOC and BCD on all matters concerning Army EW requests, requirements, and priorities.

(f) Develops and publishes applicable theater Request for Forces (RFF), Joint Urgent Operational Needs Statements (JUONS), Operational Needs Statements (ONS), and Integrated Priority Lists (IPLs) as applicable for EW requirements.

(g) Analyzes and recommends changes to commanders on EW targeting, attack guidance, target selection standards and coordinates EW assets to achieve strategic effects.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold)

(2) Meet medical and physical standards per AR 40-501.

(a) Have 20/40 correctable vision per AR 40-501, paragraphs 2-13 and 5-17 and meet hearing standards of AR 40-501, paragraphs 2-7 and 5-18.

(3) *Table 8-170B-1.* Physical requirements - a minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles.

(4) Authorized position titles are provided in tables 6-2 and 6-3. The following grades are used to code positions into one of four definable skill levels. W2 equals WO1/CW2; W3 equals CW3; CW4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-170B-2,* Standards of grade TOE/MTOE.

(b) *Table 8-170B-3,* Standards of grade TDA.

**8-170D. Military Occupational Specialty 170D -- Cyber Capability Developer Technician
(Effective 202507)**

a. *Licensing/certification requirement.* NA.

b. *Prerequisites.* DA Pam 611-21.

c. *MOS 170D.* MOS 170D is an accession MOS. The enlisted feeder MOS is any MOS.

Applicants from other military services (Air Force, Marine Corps, Navy, and Coast Guard) who can substantiate their qualifications with performance evaluations, awards, and certificates are encouraged to apply for MOS 170D. Non-military personnel (civilians), from all civilian sectors, may apply for accession into the MOS, provided they too can substantiate their qualifications with similar documentation. The proponent sets and maintains the technical qualifications for the MOS. Please refer to <https://recruiting.army.mil/170d/> for current selection criteria and Proponent contact information. The Warrant Officer accessions process is available at <https://recruiting.army.mil/ISO/AWOR>; please direct any accessions related questions to the Warrant Officer Recruiting Branch at woteam@usarec.army.mil.

d. *Associated SQL.*

(1) 0--No special qualifications.

(2) 8--Instructor.

(3) P--Parachutist.

(4) T--Transition (personnel only).

(5) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all Warrant Officer MOS)).

f. *Qualifications.*

(1) All applicants must pass the MOS 170D Cyber Capability Developer Assessment (CCDA) and must be nominated for MOS 170D by a current active-duty Cyber Capability Developer Technician. The CCDA is offered once a year (August/September). The U.S. Army Cyber School assumes responsibility for maintaining, administering, and scoring the assessment, as well as, providing documented results to all applicants.

(2) WO1/CW2 must--

(a) Be a U.S. citizen.

(b) Obtain a fully adjudicated TOP SECRET clearance with eligibility for access to sensitive compartmented information (SCI), prior to Warrant Officer Candidate School attendance.

(c) Soldier must be capable of passing a counterintelligence scope polygraph (CSP) to hold the MOS. Soldiers who refuse to take or fail a CSP will be reclassified.

(d) Formal training (successful completion of 170D Cyber Capability Developer Technician Warrant Officer Basic Course conducted under the auspices of the US Army Cyber School) is mandatory. Waiver may be granted by Commandant, US Army Cyber School, Fort Gordon, GA 30905-5300.

(e) Upon completion of 170D Cyber Capability Developer Technician Warrant Officer Basic Course, WO1s incur a 6-year term of service obligation.

(3) CW3 must--

(a) Meet qualifications described in paragraph f (2).

(b) Complete the Warrant Officer Advance Course (WOAC) for CW2(P) and CW3.

(4) CW4 must--

(a) Meet qualifications described in paragraph f (3).

(b) Complete the Warrant Officer Intermediate Level Education (WOILE) for CW3(P) and CW4.

(5) CW5 must--

(a) Meet qualifications described in paragraph f (4).

(b) Complete the Warrant Officer Senior Service Education (WOSSE).

g. *Duties.*

(1) WO1/CW2 must-

(a) A Basic-level Cyber Capability Developer Technician is proficient in programming languages at an intermediate level.

(b) A Basic-level Cyber Capability Developer Technician has a basic-level understanding of data structures, algorithms, object-oriented programming, secure design, operating systems, x86 assembly, and SQL.

(c) A Basic-level Cyber Capability Developer Technician is responsible for completing assigned tasks and modules, as required and assigned to him/her by a Senior- or Master-level Cyber Capability Developer Technician.

(2) CW3 must--

(a) Perform duties described in paragraph g (1).

(a) Manages, directs, and performs duties described in paragraph g(1).

(b) Serve as a senior capability developer technical lead.

(c) Executes capability development within a specialization area that aligns with their certification (Unix, Windows, Radio Frequency, networks, embedded systems, data science, or machine learning).

(d) Identifies new and emerging technologies, capabilities, and threat capabilities that affect cyber capability development efforts and focus.

(e) Trains, coaches, and mentors basic-level cyber capability developers to increase proficiency and prepare them for senior-level certification.

(f) Identifies and recommends mitigation strategies for gaps in processes, skill sets, access, capacity, and capability.

(g) Develops and executes training for knowledge and skill gaps within the team.

(h) Reviews and recommends adjustments to job qualification requirements and certification to ensure relevance and currency.

(i) Integrates cyber capability development into operational readiness assessments.

(j) Directs team-level cyber capability development.

(k) Manages team personnel.

(l) Assigns tasking and coordinates development efforts across teams.

(m) Interfaces with intelligence organizations and partners to synchronize cyber capability development efforts.

(3) CW4 must--

(a) Perform duties described in paragraph g (2).

(b) A Master-level Cyber Capability Developer Technician has mastered their specialty and is responsible for providing guidance and technical direction over multiple projects in this specialty.

(c) A Master-level Cyber Capability Developer Technician mentors Senior-level Cyber Capability Developer Technicians as they progress to the Master level.

(d) Master Cyber Capability Developer Technicians provide the highest level of technical insight during the design of new software and hardware capabilities.

(4) CW5 must--

(a) Perform duties described in paragraph g (3).

(b) Directs capability development, integration, and management experience in support of offensive and defensive Cyberspace operations and frameworks, at all levels.

(dc) Ensure that doctrinal Cyberspace capability integration procedures and techniques are taught at service schools and incorporated into Army, Joint and Coalition doctrine and training literature.

(d) Represent the Army and Cyberspace capability development activities at National and International technology and leadership forums.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) Meet medical and physical standards per AR 40-501.

(3) *Table 8-170D-1. Physical requirements - A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles.*

(4) Authorized position titles are provided in appendixes B and C. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals

CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (a) Table 8-170D-2. Standards of grade TOE/MTOE (Not Applicable)
- (b) Table 8-170D-3. Standards of grade TDA.

8-180A. Military Occupational Specialty 180A--Special Forces Warrant Officer

- a. *Licensing/certification requirements.* None.
- b. *Prerequisites.* DA Pam 6016.
- c. *MOS 180A.* MOS 180A is an accession MOS. The enlisted feeder MOSs are 18B, 18C, 18D, 18E, 18F and 18Z.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) T--Transition (personnel only).
 - (4) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI* (*Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS).*)
 - (1) 4W--Underwater Special Operations.
 - (2) 4X--Military Free Fall Special Forces.
 - (3) D5 – Regional Support Element (Effective 202410)
 - (4) J4 –Jedburgh Operator.
- f. *Qualifications.*
 - (1) WO1/CW2 must—
 - (a) Be a U.S. citizen.
 - (b) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmental information (SCI).
 - (c) Complete the Special Forces Warrant Officers Technical and Tactical Certification Course.
 - (d) Be able to perform parachute duty.
 - (e) Be able to pass the Special Forces swim test.
 - (f) Possess a language rating of 2/2 reflected on a current DA Form 330.
 - (g) Meet the Medical Fitness Standards for Special Forces duty per AR 40-501, Survival, Evasion, Resistance, Escape (SERE) training and free fall parachute duty and/or marine diving duty.
 - (2) CW3 must--
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Special Forces Warrant Officer Advanced Course.
 - (3) CW4 must--
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officers Staff Course (WOSC).
 - (4) CW5 must--
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Warrant Officer Senior Staff Course (WOSSC).
- g. *Duties.*
 - (1) WO1/CW2--
 - (a) Command an Operational Detachment Alpha(ODA).
 - (b) Commands a task organized operational element as needed.
 - (c) Commands half the ODA during split team operations.
 - (d) Provides advise in the areas of Special Forces operational administration, intelligence, operations, logistics, civil-military affairs, and psychological operations.
 - (e) Develops, maintains, and continually updates operational plans and targeting data for deployable elements.
 - (f) Assists in the management of predeployment planning, training, and development of operational detachments.
 - (g) Develops, directs, supervises, and conducts training for U.S. and foreign military/paramilitary forces.
 - (h) Provides advice on all aspects of Special Forces operations and specialized training to include: Military Free Fall (MFF), Combat Dive, Special Operations Training (SOT), Survival Evasion Resistance Escape (SERE), Special Forces Target Interdiction (SOTI), Special Forces Advanced Reconnaissance Target Analysis and Exploitation (SFARTAEC), Advanced

Special Operations Techniques (ASOT), Psychological Operations (PSYOP), and Civil Affairs (CA).

(i) Provides advise on the regional considerations of Special Forces operations in the operational environment based upon cultural awareness, regional ability and linguistic skills.

(2) CW3--

(a) Performs duties described in paragraph g(1).

(b) Advises the Operational Detachment Bravo (ODB) commander on all matters pertaining to warrant officer assignments, professional development and accessions.

(3) CW4

(a) Performs duties described in paragraph g(1)(b) and (d-i).

(b) Advises the Battalion Commander on all matters pertaining to warrant officer assignments, professional development, and accessions.

(4) CW5--

(a) Performs duties described in paragraph g(1)(b) and (d-i).

(b) Advises the Group Commander on all matters pertaining to warrant officer assignments, professional development, and accessions.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Heavy (Black).

(2) *Table 8-180A-1. Physical requirements.*

(3) The following grades are used to code positions into one of four definable skill levels: WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-180A-2. Standards of grade TOE/MTOE.*

(b) *Table 8-180A-3. Standards of grade TDA.*

8-255A. MOS 255A--Data Operations Warrant Officer

a. *Licensing/certification requirement.* CompTIA Security+ CE or DOD 8570.01-M IAT Level II and IAM Level I certifications.

b. *Prerequisites.* DA PAM 611-21.

c. MOS 255A. MOS 255A is an accession MOS. The enlisted feeder MOS is any MOS. All enlisted MOS to include other military services who can substantiate their qualifications with performance evaluations, awards, and certificates in information systems administration, mission command systems administration, Local Area Network (LAN) administration, cybersecurity, or computer network defense as assessed through the accession process meets current requirements.

d. *Associated SQIs.*

- (1) 0--No special qualifications.
- (2) 8--Instructor.
- (3) P--Parachutist.
- (4) T--Transition (personnel only).
- (5) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated AS/Is.* Refer to table 6-5 for listing of universal ASI's associated with all warrant officer MOS. Q6--Protection Cell Operations (personnel only) (Effective 202410).

f. *Qualifications.*

- (1) Physical Demands Category – Moderate (Gold).
- (2) *WO1/CW2 must--*
 - (a) Be a U.S. citizen.
 - (b) Must qualify for and maintain a Top Secret (TS) clearance with special compartmentalized information (SCI) access. MOS 255A warrant officers will initiate procedures to obtain the proper level of clearance immediately upon notification of the MOS 255A functional designation.
 - (c) Meet vision and hearing standards of AR 40-501 for assignment of officers to Signal Corps, normal color discrimination per AR 40-501, and have full use of both hands.
 - (d) Successfully complete the MOS 255A Warrant Officer Basic Course (WOBC).
 - (e) Minimum OPAT scores for physical demands category moderate (gold) are: Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles.
 - (f) DoD 8570.01-M IAM Level II and Information Technology certifications in the server, application development, database, and cloud computing environments are desired.

(3) *CW3 must--*

- (a) Meet qualifications listed in paragraph f (1).
- (b) CW2s assigned to CW3 positions will be a graduate of MOS 255A Warrant Officer Advance Course (WOAC) prior to assignment.

(c) DoD 8570.01-M IAT Level III and Information Security certifications are desired.

(4) *CW4 must--*

- (a) Meet qualifications listed in paragraph f (2).
- (b) CW3s assigned to CW4 positions will be a graduate of WOILE prior to assignment.
- (c) DoD 8570.01-M CNDSP Infrastructure Support and IAM Level III certifications are desired.

(5) *CW5 must see MOS 255Z.*

g. *Duties.*

(1) *WO1/CW2--*

- (a) Designs, builds, configures, operates, maintains, and sustains information systems and services within the Army's portion of the cyberspace domain on the Department of Defense Information Networks (DODIN).

- (b) Secures and protects data systems by maintaining a cybersecurity posture through the implementation of cybersecurity policies and the use of electronic keys for information systems.

(c) Advises the commander or Signal operations officer on the management and operation of Army information systems and services.

(d) May serve as an Data Operations Warrant Officer in a Brigade Combat Team, Multi-functional Brigade, Security Forces Assistance Brigade, or Expeditionary Signal Battalion Staff.

(e) May serve as Data Operations Warrant Officer in a Functional Brigade or Ranger Regiment Battalion Staff, Executive Communications Chief, or Sustainment Automation Support Management Office (SASMO).

(2) CW3--

(a) Directs and performs duties described in paragraph g (1).

(b) Trains and supervises cyberspace information technology personnel on the operation, maintenance and sustainment of information systems and services enabling combat power projection for mission command.

(c) Focuses on data availability and content management by analyzing, collecting, processing, storing, disseminating, and securing information on-demand to facilitate warfighting and non-warfighting operations.

(d) Advises senior staff members, decision, and policy makers on Army information systems and services operations, training, policies, and procedures.

(e) May serve as an Data Operations Warrant Officer of Functional Brigade, Division, ASCC, or Joint staff.

(f) May serve as an Data Operations Warrant Officer at Regional Cyber Center, National or Joint Training Center, DISA, or WHCA.

(g) May serve as an Instructor/Writer, Capabilities Developer, or Special Operations Forces.

(h) May serve as the HRC SC Junior WO Assignments Manager or WOCC TAC Officer.

(3) CW4--

(a) Performs duties described in paragraph g (2).

(b) Develops policy recommendations and provide technical guidance and advice to Commanders and staffs on the management and operation of Army, Joint, intergovernmental, interagency, and multinational information systems and services.

(c) May serve as senior Data Operations Warrant Officer of Corps/ASCC/ACOM/Joint staff.

(d) May serve as senior Data Operations Warrant Officer for Theater Signal CMD staff, DISA, Regional Cyber Center, JITC, or WHCA.

(e) May serve as senior Data Operations Warrant Officer as a Doctrine Writer or Capabilities Developer.

(f) May serve as the HRC SC Senior WO Assignments Manager or in Nominative Assignments.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) *Table 8-255A-1.* Physical requirements.

(3) The following grades are used to code positions into one of three definable skill levels: W2 equals WO1/CW2; W3 equals CW3; and W4 equals CW4. The grades are listed in the following standards of grade tables:

(a) *Table 8-255A-1.* Standards of grade TOE/MTOE.

(b) *Table 8-255A-2.* Standards of grade TDA.

8-255N. MOS 255N--Network Systems Technician

a. *Licensing/certification requirement.* CompTIA Security+ CE or DOD 8570.01-M IAT Level II and IAM Level I certifications.

b. *Prerequisites.* DA PAM 611-21.

c. *MOS 255N.* MOS 255N is an accession MOS. The enlisted feeder MOS is any MOS. All enlisted MOS to include other military services who can substantiate their qualifications with performance evaluations, awards, and certificates in the Information Technology (IT) field in voice and data internetworking, local and wide area networks (LAN & WAN), include terrestrial, satellite and aerial systems and/or network planning as assessed through the accession process meets current requirements.

d. *Associated SQ/s.*

- (1) 0--No special qualifications.
- (2) 8--Instruction.
- (3) P--Parachutiste.
- (4) T--Transition (personnel only).
- (5) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASIs.* Refer to table 6-5 for listing of universal ASI's associated with all warrant officer MOS. 2Y Space Control Systems Operator (In Grade W2 only) (Effective 202410).

f. *Qualifications.*

(1) Physical Demands Category – Moderate (Gold).

(2) *WO1/CW2 must--*

(a) Be a U.S. citizen.

(b) Must qualify for and maintain a Top Secret (TS) clearance with special compartmentalized information (SCI) access. MOS 255N warrant officers will initiate procedures to obtain the proper level of clearance immediately upon notification of the MOS 255N functional designation.

(c) Meet vision and hearing standards of AR 40-501 for assignment of officers to Signal Corps, normal color discrimination per AR 40-501, and have full use of both hands.

(d) Successfully complete the MOS 255N Warrant Officer Basic Course (WOBC).

(e) DoD 8570.01-M IAM Level II and Information Technology certifications in the routing and switching environments are desired.

(f) Minimum OPAT scores for physical demands category moderate (gold) are: Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles

(3) *CW3 must--*

(a) Meet qualifications listed in paragraph f (1).

(b) CW2s assigned to CW3 positions will be a graduate of MOS 255N Warrant Officer Advance Course (WOAC) prior to assignment.

(c) DoD 8570.01-M CSSP Infrastructure Support and IAM Level III certifications are desired.

(4) *CW4 must--*

(a) Meet qualifications listed in paragraph f (2).

(b) CW3s assigned to CW4 positions will be a graduate of the WOILE prior to assignment.

(c) DoD 8570.01-M CSSP Infrastructure Support and IAM Level III certifications are desired.

(5) *CW5 must see MOS 255Z.*

g. *Duties.*

(1) *WO1/CW2--*

(a) Designs, builds, configures, operates, maintains, and sustains voice, video, and data networks within the Army's portion of the cyberspace domain on the Department of Defense Information Networks (DODIN).

(b) Enables secure transmissions of networked information to support and enable mission command.

(c) Implements cybersecurity network policies and the use of electronic keys for transmission systems.

(d) Advises the commander or Signal operations officer of the status of assigned networks, sub-networks, and associated systems.

(e) May serve as a Network Systems Technician in a Brigade Combat Team, Multi-functional Brigade, or Security Forces Assistance Brigade staff.

(f) May serve as a Network Systems Technician in a Functional Support Brigade or Expeditionary Signal Battalion staff, or Cyber Protection Team.

(2) CW3--

(a) Direct and performs duties described in paragraph g (1).

(b) Trains and supervises cyberspace information technology personnel in the designing, building, configuring, operating, maintaining, securing, and sustaining networks, network systems equipment, network nodal devices, transmission and transport systems from the strategic level to the tactical edge.

(c) Leads frequency management to support communication networks.

(d) Advises senior staff members, decision, and policy makers on communication networks and transport systems operations, training, policies, and procedures.

(e) May serve as a Network Systems Technician of Functional BDE, Division, WHCA, NIE, JTIC, DISA staff or COCOM or ASCC Commander COMMO Team.

(f) May serve as a Network Systems Technician at a Regional Hub Node or Regional Cyber Center.

(g) May serve as an Instructor/Writer, WOCC TAC officer, Training Center O/C.

(h) May serve as senior Network Systems Technician in Nominative assignments.

(i) May serve as the HRC SC Junior WO Assignments Manager.

(3) CW4--

(a) Performs duties described in paragraph g (2).

(b) Develops policy recommendations and provides technical guidance and advice to commanders and staffs on the management and operation of Army, Joint, intergovernmental, interagency, and multinational communication networks and transport systems.

(c) May serve as senior Network Systems Technician of Functional BDE, JMC, TSOC, Corps staff.

(d) May serve as senior Network Systems Technician for DISA/COCOM/ACOM/ASCC/DRU Staff.

(e) May serve as senior Network Systems Technician for HQDA staff or in Nominative Assignments.

(f) May serve as the HRC SC Senior WO Assignments Manager.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) *Table 8-255N-1.* Physical requirements.

(3) The following grades are used to code positions into one of three definable skill levels: W2 equals WO1/CW2; W3 equals CW3; and W4 equals CW4. The grades are listed in the following standards of grade tables:

(a) *Table 8-255N-1.* Standards of grade TOE/MTOE.

(b) *Table 8-255N-2.* Standards of grade TDA.

8-255S. MOS 255S—Cyberspace Defense Warrant Officer

- a. *Licensing/certification requirement.* CompTIA Security+ CE (meets DoD 8570.01-M IAT Level II and IAM Level I requirements).
- b. *Prerequisites.* DA Pam 611-21.
- c. MOS 255S. MOS 255S is an accession MOS. The enlisted feeder MOS is any MOS. All enlisted MOS to include other military services who can substantiate their qualifications with performance evaluations, awards, and certificates in the Information Technology (IT) field in cyber security, computer network defense, information systems administration, local and wide area networks (LAN & WAN), and/or voice and data internetworking as assessed through the accession process meets current requirements.
- d. *Associated SQIs.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASIs.* List is not all inclusive refer to Table 6-6 Listing of universal ASI's associated with all warrant officer MOS. Q6--Protection Cell Operations (personnel only) (Effective 202410).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen.
 - (b) Must qualify for and maintain a Top Secret (TS) clearance with Special Compartmentalized Information (SCI) access. MOS 255S warrant officers will initiate procedures to obtain the proper level of clearance immediately upon notification of the MOS 255S functional designation.
 - (c) Meet vision and hearing standards of AR 40-501 for assignment of officers to Signal Corps, normal color discrimination per AR 40-501, and have full use of both hands.
 - (d) Successfully complete the MOS 255S Warrant Officer Basic Course (WOBC).
 - (e) Minimum OPAT scores for physical demands category moderate (gold) are: Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles.
 - (f) DoD 8570.01-M CNDSP Analyst and IAM Level II certifications are desired.
 - (2) *CW3 must--*
 - (a) Meet qualifications listed in paragraph f (1).
 - (b) CW2s assigned to CW3 positions will be a graduate of MOS 255S Warrant Officer Advance Course (WOAC) prior to assignment.
 - (c) DoD 8570.01-M CNDSP Auditor and Information Security certifications are desired.
 - (3) *CW4 must--*
 - (a) Meet qualifications listed in paragraph f (2).
 - (b) CW3s assigned to CW4 positions will be a graduate of WOILE prior to assignment.

(c) DoD 8570.01-M CNDSP Incident Responder and IAM Level III certifications are desired.

(4) *CW5 must see MOS 255Z.*

g. *Duties.*

(1) *WO1/CW2--*

(a) Design, build, configure, operate, and maintain cybersecurity capabilities and the implementation of a defensible network architecture in support of cyber operations internal defensive measures within the DODIN in order to enumerate, illuminate, locate, eradicate threats and respond to unauthorized activity, security alerts, attempted exploitation, data exfiltration, escalation, and any additional threats to mission command.

(b) Implements cybersecurity policies at all echelons, direct internal defensive measures across the integrated enterprise and tactical network, assist in cryptographic network (cryptonet) planning and supports Electromagnetic Spectrum Operations (EMSO) to reduce detection by electronic signature.

(c) Advises the commander or Signal operations officer on the management and operation of Army cybersecurity efforts to include the identification of key terrain, mission critical networks, nodes, applications and systems while operating within optimal, degraded, intermittent, or latent environments.

(d) May serve as an Cyberspace Defense Warrant Officer in a Brigade Combat Team, Multi-functional Support Brigade, Cyberwarfare Support Battalion, Security Forces Assistance Brigade, or Functional Support Brigade.

(2) *CW3--*

(a) Directs and performs duties described in paragraph g (1).

(b) Trains and supervises cybersecurity personnel in the building, configuring, securing, defending, protecting, and sustaining cybersecurity equipment to maintain a protected network environment thus enabling combat power projection in all warfighting domains.

(c) Advises senior staff members, decision, and policy makers on cybersecurity efforts to include the identification of key terrain, mission critical networks, nodes, applications and systems while operating within optimal, degraded, intermittent, or latent environments.

(d) May serve as an Cyberspace Defense Warrant Officer in Theater Tactical Signal

or Military Intelligence Brigades.

(e) May serve as an Cyberspace Defense Warrant Officer in Division, ASCC, Multi-Domain Task Force, or Joint staff organizations.

(f) May serve as an Instructor/Writer, Doctrine or Capabilities Developer in an Army or Joint service school.

(g) May serve as an Cyberspace Defense Warrant Officer at a Regional Cyber Center, DISA, or National or Joint Training Center.

(h) May serve as senior Cyberspace Defense Warrant Officer in Special assignments.

(i) May serve as the HRC SC Junior WO Assignments Manager or WOCC TAC Officer.

(3) **CW4--**

(a) Directs and performs duties described in paragraph g (2).

(b) Provides technical guidance and advice to commanders and staffs on the management and operation of Army, Joint, intergovernmental, interagency, and multinational cybersecurity efforts to include the identification of key terrain, mission critical networks, nodes, applications and systems while operating within optimal, degraded, intermittent, or latent environments.

(c) May serve as senior Cyberspace Defense Warrant Officer of Corps/ASCC/ACOM/Joint staff.

(d) May serve as senior Cyberspace Defense Warrant Officer for Theater Signal CMD staff, DISA, Regional Cyber Center, JITC, or WHCA.

(e) May serve as senior Cyberspace Defense Warrant Officer as a Doctrine Writer or Capabilities Developer.

(f) May serve as the HRC SC Senior WO Assignments Manager or in Nominative Assignments.

(4) *CW5 must see MOS 255Z.*

h. Physical demands category, grading and position titles.

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) Table 8-255S-1. Physical requirements.

(3) The following grades are used to code positions into one of three definable skill levels: W2 equals WO1/CW2; W3 equals CW3; and W4 equals CW4. The grades are listed in the following standards of grade tables:

(a) *Table 8-255S-1. Standards of grade TOE/MTOE.*

(b) *Table 8-255S-2. Standards of grade TDA.*

8-255Z. MOS 255Z—Senior Signal Warrant Officer

a. *Licensing/certification requirement.* DOD 8570.01M Baseline Technical certification IAT Level III or IAM Level II requirements.

b. *Prerequisites.* Demonstrated proficiency in MOS 255A, 255N or 255S.

c. *MOS 255Z.* MOS 255Z is a non-accession MOS. It is the capstone MOS for 255A, 255N, and 255S at the executive level (CW5) for cyberspace information technology and cybersecurity activities. They serve as senior technical and tactical advisors for Department of Defense Information Networks (DODIN) operations at any echelon of command.

d. *Associated SQI.*

(1) 0--No special qualifications.

(2) 8--Instructor.

(3) P--Parachutist.

(4) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.* Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS.

f. *Qualifications.*

(1) Physical Demands Category – Moderate (Gold).

(2) *WO1/CW2/CW3 and CW4 does not apply*

(3) *CW5 must--*

(a) Meet qualifications listed for one of the feeder MOSs 255A, 255N, or 255S.

(b) Successfully perform at the CW4 level as described in the duties paragraph for the feeder MOSs.

(c) Be a U.S. citizen.

(d) Possess a security clearance of TOP SECRET with special compartmentalized information (SCI) access.

(e) Minimum OPAT scores for physical demands category moderate (gold) are: Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles

(f) Meet vision and hearing standards of AR 40-501 for assignment of officers to Signal Corps, normal color discrimination per AR 40-501, and have full use of both hands.

(g) Successfully complete the Warrant Officer Senior Service Education (WOSSE) course no later than 1 year after promotion to CW5 except Reserve Component.

(h) DoD 8570.01-M CSSP Manager and IASAE Level III certifications are desired.

g. *Duties.*

(1) *WO1/CW2/CW3/CW4 does not apply.*

(2) *CW5--*

(a) Provides technical guidance and expertise regarding operations and policies for information systems requirements, cybersecurity operations, network administration, and signal maintenance to support and enable mission command.

(b) Contributes to the MOS life cycle management for all personnel proponent functions to include the assignment process and oversee personnel management matters pertaining to Signal Branch.

(c) Coordinates and provides oversight for information technology contracting, procurement, and materiel acquisition programs.

(d) Develops policy recommendations and provide technical guidance and advice to commanders and staffs on the management and operation of cyberspace information technology data networks, systems, services, and cybersecurity activities of Army, Joint, intergovernmental, interagency, and multinational organizations.

(e) May serve as senior technical and tactical advisors for the Department of Defense Information Network (DODIN) operation at any echelon of command.

(f) May serve as the Senior Signal Warrant Officer for Theater Tactical Signal Brigade or Corps G6 staff.

(g) May serve as Career Program Manager or Technical Director for U.S. Army Signal School.

(h) May serve as Command Chief Warrant Officer for JCSE, WHCA, Theater Signal Commands, Senior Technical Advisor for ASCC, or ACOM G6 Staff.

(i) May serve as Regimental Chief Warrant Officer for U.S. Army Signal Regiment.

(j) May serve as Command Chief Warrant Officer for U.S. Army Network Enterprise Technology Command.

(k) May serve as Senior Signal Technical Advisor for DISA, COCOM, Joint J6 Staff, intergovernmental, interagency, or multinational partners.

(l) May serve as Chief Technology Officer for HQDA G6/CIO Staff.

h. Physical demands category, grading and position titles.

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) *Table 8-255S-1.* Physical requirements.

(3) The following grades are used to code positions into one of three definable skill levels: W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-255Z-1.* Standards of grade TOE/MTOE.

(b) *Table 8-255Z-2.* Standards of grade TDA.

8-270A. MOS 270A--Legal Administrator

a. *Licensing/certification requirement.* In accordance with 10 USC 3037(c) (2), The Judge Advocate General (TJAG) certifies warrant officers to serve in the JAGC. Certification includes TJAG's determination that the initial requirements for accession into the JAGC have been met, awarding of MOS 270A and maintaining appointment in the JAGC. TJAG's certification will ensure that all warrant officers possess and maintain highest levels of ethical and personal conduct, moral behavior and MOS proficiency. TJAG can evaluate a legal administrator's qualifications as needed to include when the warrant officer engages in misconduct that is detrimental to good order and discipline and TJAG determines revocation of MOS 270A is in the best interest of the Army.

b. *Prerequisites.* DA PAM 611-21.

c. *MOS 270A* MOS 270A is an accession MOS. The enlisted feeder MOS is 27D.

d. *Restrictions.* No record of conviction by special or general courts-martial or civilian courts of offenses listed in AR 27-10 (Military Justice), chapter 24 or otherwise required to register as a sexual offender under AR 27-10, chapter 24.

e. *Associated SQI.*

(1) 0--No special qualifications.

(2) 8--Instructor.

(3) P--Parachutist.

(4) T--Transition (personnel only).

(5) Z--Research, Development, Test, and Evaluation Technician.

f. *Associated ASI.* (Note: Refer to table 6-5 for (Listing of universal ASI's associated with all warrant officer MOS)).

g. *Qualifications.*

(1) *WO1/CW2 must--*

(a) Complete the Judge Advocate Warrant Officer Basic Course.

(b) Complete the Judge Advocate General's School Resident Legal Administrators Course.

(2) *CW3 must--*

(a) Meet qualifications described in paragraph f(1).

(b) Complete the Warrant Officer Advanced Course.

(3) *CW4 must--*

(a) Meet qualifications described in paragraph f(2).

(b) Complete the Warrant Officer Intermediate Level Education (WOILE).

(4) *CW5 must--*

(a) Meet qualifications described in paragraph f(3).

(b) Complete the Warrant Officer Senior Service Education (WOSSE).

h. *Duties.*

(1) *WO1/CW2*—Performs and/or manages all activities pertaining to the processes and systems associated with the following core competencies in support of all JAGC Core Legal Disciplines:

(a) Legal Systems Integration and Innovation. Performs information management and systems integration, including protection of government information and attorney-client privileged information and attorney work product. Analyzes legal systems and processes and advises senior leader on quality assurance and internal control measures. Develops requirements and plans and mitigates risk. Facilitates AC/RC integration and partnership opportunities. Leads change with staff coordination and synchronization including ORSA and internal review activities. Manages facilities, technology, and logistics in support of legal operations in garrison and deployed environments across the full spectrum of operations.

(b) Knowledge Management. Assesses legal organization knowledge and performance and designs and leads development of solutions to knowledge gaps. Leads pilot/experimentation and change management initiatives. Performs quality control and quality assurances activities in support of legal operations.

(c) Resource management. Provides comprehensive management of all budgetary resources by determining budgetary requirements, procuring funding, planning and managing budgets, planning and executing contracts (including expert witnesses), and executing budgets in

support of legal operations and special programs (including witness travel and special victim counsel program). Serves as claims investigating officer or on a Foreign Claims Commission in deployed environments.

(d) Legal Personnel Management. Manages all aspects of training and continuing legal education, certification, administration, and readiness of personnel serving in a legal office. Manages the special legal personnel and organizational programs. Coordinates historian and protocol activities. Serves as adjutant or assistant adjutant in legal support organizations and serves a Board Recorder in administrative separation boards (RC only).

(e) Force Management. Provides force management subject matter expertise by analyzing and monitoring manpower requirements and current and projected authorizations. Prepares manpower plans and coordinates force management documentation. Resources manning documents.

(f) Security. Serves as security manager for assigned organizations. Responsible for all security requirements in accordance with applicable regulations including: physical security, information security, personnel security, communications security (COMSEC), and anti-terrorism/force protection. Provides Operations Security oversight and plans Continuity of Operations. Coordinates with military agencies for proper building and personnel security in high-profile courts-martial cases.

(2) CW3--

(a) Performs duties described in paragraph *h*(1) with increased knowledge and expertise. Recruits and assesses potential JAGC warrant officer applicants.

(b) Provides guidance and technical assistance to subordinate legal elements and/or other staff elements.

(3) CW4—

(a) Performs duties described in paragraph *h*(1)& *h*(2) and mentors subordinate JAGC Warrant Officers.

(b) Educates members of the JAGC through formal programs of instruction.

(4) CW5--

(a) Performs duties described in paragraph *h*(1), *h*(2) & *h*(3).

(b) Responsible for MOS proponency and career management functions.

(c) Provides Knowledge Management expertise for the JAG Corps.

i. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate.

(2) *Table 8-270A-1. Physical requirements.*

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-270A-2. Standards of grade TOE/MTOE.*

(b) *Table 8-270A-3. Standards of grade TDA.*

8-280A. Military Occupational Specialty 280A – Software Operations Technician (Effective 202507)

- a. *Licensing/certification requirement.* NA.
- b. *Prerequisites.* DA Pam 611-21.
- c. *MOS 280A.* MOS 280A is an accession MOS. The enlisted feeder MOS is any MOS.

Candidates must possess the following qualifications.

- (a) Must be SGT (E-5) or Above
- (b) Must have completed Warrior Leaders Course (WLC)
- (b) Must meet all Administrative Requirements to become a Warrant Officer.
 - Including be a U.S. citizen (No waivers)
 - Possess a SECRET with eligibility to obtain TOP SECRET (No waivers)
 - ASVAB GT Score of 110 (No waivers)
 - High-School Graduate or GED (No waivers)
 - Pass Commissioning Physical

- d. *Associated SQI.*

- (1) 0--No special qualifications.
- (2) 8--Instructor.
- (3) P--Parachutist.
- (4) T--Transition (personnel only).
- (5) Z--Research, Development, Test, and Evaluation Technician.

- e. *Associated ASI.*

- 5J--Software Development Engineer
- 5L--Platform Engineer
- 5M--Technical Mission Force Cadre

Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS).

- f. *Qualifications.*

(1) All applicants must apply, be accepted, and graduate from the Army Software Factory 280A Software Development Engineer Training Program. Complete the Software Factory Paired Industry Partner program and complete the one-year utilization program within the Army Software Factory.

(2) WO1/CW2 must--

- (a) Be a U.S. citizen. Possess a TOP SECRET security clearance with eligibility for access to sensitive compartmented information (SCI).
- (b) Complete 280A Software Operations Technician Warrant Officer Basic Course.
- (c) Possess a 280A Software Operations Additional Skill Identifier (ASI)
 - 5J--Software Development Engineer
 - 5L--Platform Engineer
- (d) Upon completion of 280A Software Operations Technician Warrant Officer Basic Course, WOs incur a 6-year term of service obligation.

(3) CW3 must—

- (a) Meet qualifications described in paragraph f (2).
- (b) Complete the Warrant Officer Advanced Common Core.
- (c) Complete 280A Software Operations Technician Warrant Officer Advanced Course.

(4) CW4 must—

- (a) Meet qualifications described in paragraph f (3).
- (b) Complete the Warrant Officer Intermediate Level Education (WOILE).

(5) CW5 must—

- (a) Meet qualifications described in paragraph f (4).
- (b) Complete the Warrant Officer Senior Service Education (WOSSE).

- g. *Duties.*

- (1) WO1/CW2 must—

- (a) A Basic-level Software Operations Technician leverages fundamentals of software development using basic programming language features, fundamental cybersecurity and secure

software development concepts, Product Management, standard software architecture, software development engineering practices, platform engineering practices, and employing scripting languages at an intermediate level.

(b) A Basic-level Software Operations Technician – Software Development Engineer has a basic-level understanding of the software development discipline, common data structures and algorithms, basic software architecture patterns, prototyping, object-oriented and functional programming, secure software development principles, and database architecture and design. Includes modules of Software Development Core Competencies, Cyber Security Fundamentals, Micro Service Applications, and Containerization Fundamentals. Responsible for full-stack web application development, low-code/no-code application development, digital-system plug-ins, and common operating picture plug-ins.

(c) A Basic-level Software Operations Technician – Platform Engineer understands the foundational concepts involved with software and platform development disciplines with an emphasis on infrastructure, application hosting, and container orchestration. Includes modules of Platform Development Operations Core Competencies, Cyber Security Fundamentals. Administers platform applications for software development teams to develop, deploy, and scale their applications.

(d) Complete assigned tasks and modules, as required and assigned by a Senior- or Master-level Software Operations Technician.

(2) CW3 must--

(a) Perform duties described in paragraph g (1).

(b) A Senior-level Software Operations Technician leverages Lean and Agile methodologies and management practices to lead software development and platform engineering teams through the creation and management of software and platform projects.

(c) A Senior-level Software Operations Technician must have senior-level expertise within a specialized focus area and possess a deep understanding of the product development lifecycle and DevSecOps. Collaborates with and advises adjacent software operations specialties on technical direction, risk mitigation, and impacts to a project's overall engineering efforts. Propagates a deep understanding of testing methodologies and code/infrastructure development. Consolidates operational lessons learned from subordinate echelons and informs Master-level engineers of unique challenges or project impediments. Integrates new practices or technologies into current operations. Also provides training, guidance, oversight, and direction to Basic-level Software Operations Technicians working under their tutelage. Provides mentorship and talent management for career progression of Junior Warrant Officers. Responsible for decomposing projects into components which can be assigned to Basic-level Software Operations Technicians.

(d) A Senior-level Software Operations Technician – Software Development Engineer serves on a cross-functional team leveraging an advanced-level of understanding of programming language features, software architecture design patterns, and programming concepts to build cloud-native and mobile applications or plugins. Develops and facilitates training pathways for Junior Software Development Engineers. Enforces industry best practices, such as secure software development, pair-programming, and test-driven development standards across the organization.

(e) A Senior-level Software Operations Technician – Platform Engineer understands and employs the software and platform development disciplines with an emphasis on infrastructure, application hosting, and container orchestration. Includes modules of Platform Development Operations Advanced Competencies, Cyber Security Best Practices, Containerization Operations, and managing a Continuous Integration/Continuous Deployment (CI/CD) Pipeline. Develops and maintains application teams' path to production, services, tooling, and DevSecOps platform. Leverages platform engineering principles to host cloud-native applications for software development teams to develop, deploy, and scale their applications. Enforces industry best practices and standards across the organization.

(f) A Senior-level Software Operations Technician is responsible for completing assigned tasks and modules, as required and assigned by a Master-level Software Operations Technician.

(3) CW4 must--

(a) Perform duties described in paragraph g (2).

(b) A Master-level Software Operations Technician possesses skills in negotiation, policy analysis, and development. Can demonstrate knowledge in force management and emerging technologies.

(c) Serve as a principal advisor to decision and policy makers on Software Operations training, policies, and procedures in areas of software development, platform engineering, and security principles. Responsible for collaborating on operational and strategic-level solutions.

(d) Must have Master-level expertise within a specialized focus area and is responsible for advising, aligning, and directing organizational technical infrastructure. Informs design patterns, technologies, and practices that achieve organizational outcomes while reinforcing training career progression opportunities for software operations cross-functional teams.

(e) Set conditions for intermediate and senior level Software Operations Technicians to mentor more junior level Software Operations Technicians in product development lifecycle and DevSecOps.

(f) Mentor Senior-level Software Operations Technician as they progress to the Master level.

(4) CW5 must--

(a) Perform duties described in paragraph g (3).

(b) Deliver master-level technical and tactical expertise on the primary duties of technical leader, manager, multidiscipline Software Operations integrator, and advisor.

(c) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties.

(d) Support commanders with the development of new Software Operations doctrine, organizational structure, methods and equipment to be utilized by Software Operations Technicians.

(e) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers.

(f) Possess special leadership abilities that interprets the commander's intent and mission to support Multi-Domain Operations (MDO), representing and advising on the responsibilities of Software Operations within their respective AOR.

(g) Primarily support corps, echelons above corps, major command, Joint, Interagency, Intergovernmental, and Multinational operations.

h. *Physical demands category, grading, and position titles.*

(1) Physical Demands Category (PDC) – Moderately Heavy.

(2) Meet physical standards per AR 40-501, chapter 2.

(3) Have 20/40 correctable vision per AR 40-501, paragraphs 2-13 and 5-17 and meet hearing standards of AR 40-501, paragraphs 2-7 and 5-18.

(4) *Table 8-280A-1. Physical requirements.*

(a) A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles Physical Demand Category in “Moderate” (Gold).

(5) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables: Table 8-280A-3. Standards of grade TDA.

8-280A. Military Occupational Specialty 280A – Software Operations Technician (Effective 202507)

- a. *Licensing/certification requirement.* NA.
- b. *Prerequisites.* DA Pam 611-21.
- c. *MOS 280A.* MOS 280A is an accession MOS. The enlisted feeder MOS is any MOS. Candidates must possess the following qualifications.
 - (a) Must be SGT (E-5) or Above
 - (b) Must have completed Warrior Leaders Course (WLC)
 - (b) Must meet all Administrative Requirements to become a Warrant Officer.
 - Including be a U.S. citizen (No waivers)
 - Possess a SECRET with eligibility to obtain TOP SECRET (No waivers)
 - ASVAB GT Score of 110 (No waivers)
 - High-School Graduate or GED (No waivers)
 - Pass Commissioning Physical
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.*
 - 5J--Software Development Engineer
 - 5L--Platform Engineer
 - 5M--Technical Mission Force Cadre
- Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)).*
- f. *Qualifications.*
 - (1) All applicants must apply, be accepted, and graduate from the Army Software Factory 280A Software Development Engineer Training Program. Complete the Software Factory Paired Industry Partner program and complete the one-year utilization program within the Army Software Factory.
 - (2) WO1/CW2 must--
 - (a) Be a U.S. citizen. Possess a TOP SECRET security clearance with eligibility for access to sensitive compartmented information (SCI).
 - (b) Complete 280A Software Operations Technician Warrant Officer Basic Course.
 - (c) Possess a 280A Software Operations Additional Skill Identifier (ASI)
 - 5J--Software Development Engineer
 - 5L--Platform Engineer
 - (d) Upon completion of 280A Software Operations Technician Warrant Officer Basic Course, WOs incur a 6-year term of service obligation.
 - (3) CW3 must--
 - (a) Meet qualifications described in paragraph f (2).
 - (b) Complete the Warrant Officer Advanced Common Core.
 - (c) Complete 280A Software Operations Technician Warrant Officer Advanced Course.
 - (4) CW4 must--
 - (a) Meet qualifications described in paragraph f (3).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE).
 - (5) CW5 must--
 - (a) Meet qualifications described in paragraph f (4).
 - (b) Complete the Warrant Officer Senior Service Education (WOSSE).
- g. *Duties.*
 - (1) WO1/CW2 must--
 - (a) A Basic-level Software Operations Technician leverages fundamentals of software development using basic programming language features, fundamental cybersecurity and secure

software development concepts, Product Management, standard software architecture, software development engineering practices, platform engineering practices, and employing scripting languages at an intermediate level.

(b) A Basic-level Software Operations Technician – Software Development Engineer has a basic-level understanding of the software development discipline, common data structures and algorithms, basic software architecture patterns, prototyping, object-oriented and functional programming, secure software development principles, and database architecture and design. Includes modules of Software Development Core Competencies, Cyber Security Fundamentals, Micro Service Applications, and Containerization Fundamentals. Responsible for full-stack web application development, low-code/no-code application development, digital-system plug-ins, and common operating picture plug-ins.

(c) A Basic-level Software Operations Technician – Platform Engineer understands the foundational concepts involved with software and platform development disciplines with an emphasis on infrastructure, application hosting, and container orchestration. Includes modules of Platform Development Operations Core Competencies, Cyber Security Fundamentals. Administers platform applications for software development teams to develop, deploy, and scale their applications.

(d) Complete assigned tasks and modules, as required and assigned by a Senior- or Master-level Software Operations Technician.

(2) CW3 must--

(a) Perform duties described in paragraph g (1).

(b) A Senior-level Software Operations Technician leverages Lean and Agile methodologies and management practices to lead software development and platform engineering teams through the creation and management of software and platform projects.

(c) A Senior-level Software Operations Technician must have senior-level expertise within a specialized focus area and possess a deep understanding of the product development lifecycle and DevSecOps. Collaborates with and advises adjacent software operations specialties on technical direction, risk mitigation, and impacts to a project's overall engineering efforts. Propagates a deep understanding of testing methodologies and code/infrastructure development. Consolidates operational lessons learned from subordinate echelons and informs Master-level engineers of unique challenges or project impediments. Integrates new practices or technologies into current operations. Also provides training, guidance, oversight, and direction to Basic-level Software Operations Technicians working under their tutelage. Provides mentorship and talent management for career progression of Junior Warrant Officers. Responsible for decomposing projects into components which can be assigned to Basic-level Software Operations Technicians.

(d) A Senior-level Software Operations Technician – Software Development Engineer serves on a cross-functional team leveraging an advanced-level of understanding of programming language features, software architecture design patterns, and programming concepts to build cloud-native and mobile applications or plugins. Develops and facilitates training pathways for Junior Software Development Engineers. Enforces industry best practices, such as secure software development, pair-programming, and test-driven development standards across the organization.

(e) A Senior-level Software Operations Technician – Platform Engineer understands and employs the software and platform development disciplines with an emphasis on infrastructure, application hosting, and container orchestration. Includes modules of Platform Development Operations Advanced Competencies, Cyber Security Best Practices, Containerization Operations, and managing a Continuous Integration/Continuous Deployment (CI/CD) Pipeline. Develops and maintains application teams' path to production, services, tooling, and DevSecOps platform. Leverages platform engineering principles to host cloud-native applications for software development teams to develop, deploy, and scale their applications. Enforces industry best practices and standards across the organization.

(f) A Senior-level Software Operations Technician is responsible for completing assigned tasks and modules, as required and assigned by a Master-level Software Operations Technician.

(3) CW4 must--

(a) Perform duties described in paragraph g (2).

(b) A Master-level Software Operations Technician possesses skills in negotiation, policy analysis, and development. Can demonstrate knowledge in force management and emerging technologies.

(c) Serve as a principal advisor to decision and policy makers on Software Operations training, policies, and procedures in areas of software development, platform engineering, and security principles. Responsible for collaborating on operational and strategic-level solutions.

(d) Must have Master-level expertise within a specialized focus area and is responsible for advising, aligning, and directing organizational technical infrastructure. Informs design patterns, technologies, and practices that achieve organizational outcomes while reinforcing training career progression opportunities for software operations cross-functional teams.

(e) Set conditions for intermediate and senior level Software Operations Technicians to mentor more junior level Software Operations Technicians in product development lifecycle and DevSecOps.

(f) Mentor Senior-level Software Operations Technician as they progress to the Master level.

(4) CW5 must--

(a) Perform duties described in paragraph g (3).

(b) Deliver master-level technical and tactical expertise on the primary duties of technical leader, manager, multidiscipline Software Operations integrator, and advisor.

(c) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties.

(d) Support commanders with the development of new Software Operations doctrine, organizational structure, methods and equipment to be utilized by Software Operations Technicians.

(e) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers.

(f) Possess special leadership abilities that interprets the commander's intent and mission to support Multi-Domain Operations (MDO), representing and advising on the responsibilities of Software Operations within their respective AOR.

(g) Primarily support corps, echelons above corps, major command, Joint, Interagency, Intergovernmental, and Multinational operations.

h. *Physical demands category, grading, and position titles.*

(1) Physical Demands Category (PDC) – Moderately Heavy.

(2) Meet physical standards per AR 40-501, chapter 2.

(3) Have 20/40 correctable vision per AR 40-501, paragraphs 2-13 and 5-17 and meet hearing standards of AR 40-501, paragraphs 2-7 and 5-18.

(4) *Table 8-280A-1. Physical requirements.*

(a) A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles Physical Demand Category in "Moderate" (Gold).

(5) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables: Table 8-280A-3. Standards of grade TDA.

8-311A. Military Occupational Specialty 311A--CID Special Agent

- a. *Licensing/certification.* AR 195-3.
- b. *Prerequisites.* AR 195-3 and DA Cir 601 series.
- c. *MOS 311A.* MOS 311A is an accession MOS. The enlisted feeder MOS is 31D. All applicants must apply for acceptance into the Special Agent program IAW the requirements of 195-3.
- d. *Restrictions.* No record of conviction by special or general courts-martial or civilian courts of offenses listed in AR 27-10 (Military Justice), chapter 24 or otherwise required to register as a sexual offender under AR 27-10, chapter 24.
- e. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) K--Polygraph Examiner.
 - (4) P--Parachutist.
 - (5) T--Transition (personnel only).
 - (6) Z--Research, Development, Test, and Evaluation Technician.
- f. *Associated ASI.* (*Note: Refer to table 6-6 (Listing of universal ASI's associated with all MOS)).*
 - (1) P2---Protective Services Specialist.
 - (2) P7—Digital Forensic Examiner (DFE).
 - (3) P8—Basic Special Victims Investigator (BSVI) (personnel only).
 - (4) Q6--Protection Cell Operations (personnel only) (Effective 202410).
 - (5) Q8—Senior Special Victims Investigator (SSVI) (personnel only).
- g. *Qualifications.*
 - (1) *WO1 must--*
 - (a) Be a U.S. citizen. Qualify for security eligibility of TS.
 - (b) Meet the qualifications outlined in AR 195-3 (paragraph 2-2), (Acceptance, Accreditation and Release of U.S. Army Criminal Investigation Command Personnel).
 - (c) Be accredited by the Director, Army CID, as required by AR 195-3.
 - (d) Must have completed Warrant Officer Candidate Course (WOCC) and the Warrant Officer Basic Course (WOBC).
 - (2) *CW2 must--*
 - (a) Meet qualifications described in paragraph g(1).
 - (b) Complete the Warrant Officer Intermediate Course (WOIC) Distant Learning (DL) and CID (WOIC-DL)
 - (3) *CW3 must--*
 - (a) Meet qualifications described in paragraph g(2).
 - (b) Complete the Warrant Officer Advance Course (WOAC) and follow-on CID (WOAC).
 - (4) *CW4 must--*
 - (a) Meet qualifications described in paragraph g(3).
 - (b) Complete the Warrant Officer Senior Course (WOSC) and follow-on CID WOSC.
 - (5) *CW5 must--*
 - (a) Meet qualifications described in paragraph g(4).
 - (b) Complete the Warrant Officer Master Course (WOMC) as required by nominative position.
- h. *Duties.*
 - (1) *WO1/CW2 must--*
 - (a) Investigate felony and other significant crime of Army interest as defined by regulations, military, and federal law.
 - (b) Plans, organizes, conducts, and supervises overt and covert investigations.
 - (c) Examines and processes crime scenes.
 - (d) Collects, preserves, and evaluates physical evidence for scientific examination by laboratories and use in judicial proceedings.
 - (e) Obtains and executes arrest and search warrants.
 - (f) Conducts raids and task force operations.

(g) Interviews and interrogates victims, witnesses, suspects, and subjects and obtain written statements executed under oath.

(h) Develops, evaluates, and manages informants and other sources of criminal intelligence.

(i) Represents the Army's interest in investigations conducted collaterally with the Department of Defense, Department of Justice, and other federal, state, and local investigative agencies.

(j) Maintains close working relationships with attorneys of the Staff Judge Advocate and the United States Attorney's Office, and testify at Courts-Martial, Federal District Court, and other judiciary tribunals.

(k) Writes, reviews, and approves technical investigative reports.

(l) Conducts and supervises technical surveys of Army elements and activities which analyze and detect on-going crime, and recommends actions to prevent crime which could result in significant economic loss and reduced combat effectiveness.

(m) Conducts personnel security vulnerability assessments for designated senior Army officials.

(n) Provides personnel security for designated Department of Defense executives, visiting foreign officials, and other key officials.

(o) Performs hostage negotiations

(p) Perform duties as Digital Forensics Examiner, Polygraph Examiner, Field Office Tactics Advisor, Field Training Agent, Tech Agent, Forensic Science Consultant.

(2) *CW3 must--*

(a) Performs duties described in paragraph h(1).

(b) Provides technical guidance and direction to subordinate investigative units.

(c) Trains new Special Agents on duties described in paragraph h(1).

(d) Performs duties as Branch Chief, Training Developer, Instructor/SGL at DACID Training Academy, Assistant Detail Leader, Senior Field Training Agent, Senior Digital Forensic Examiner.

(3) *CW4 must—*

(a) Performs duties described in paragraph h(1-2).

(b) Supervises investigative case management and overall investigative operations.

(c) Supervises the technical performance of subordinate personnel in related job skills.

(d) Performs duties as the Senior Supervisory Agent, Detail Leader, and Detailed IG,

(4) *CW5 must--*

(a) Performs duties described in paragraph h(1-3).

(b)

(c) Supervises and provides guidance and technical advice to subordinate investigative units or other staff elements.

(d) Performs duties as Liaison Officer for Army Commands., Chief, DACID Training Academy.

(e) Performs duties as the Warrant Officer Advisor to the Director, Army CID.

i. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) A physical profile of 222221.

(3) Normal color vision.

(4) *Table 8-311A-1. Physical requirements.*

(5) A minimum OPAT score of Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles in Physical Demands Category in Moderate (Gold).

(6) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-311A-2. Standards of grade TOE/MTOE.*

(b) *Table 8-311A-3. Standards of grade TDA.*

8-350F. MOS 350F--All Source Intelligence Technician (All Source Intel Tech)

- a. *Licensing/certification.* None.
- b. *Prerequisites.* DA Pam 611-21.
- c. *MOS 350F.* MOS 350F is an accession MOS. The enlisted feeder MOS is 35F.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASI's associated with all warrant officer MOS).)
 - (1) 2P Space Control Planner (In Grades W2-W4 only) (Effective 202410).
 - (2) L8--Joint Operational Fires and Effects (in grades W2-W5 only; personnel and positions). (Effective 202610).
 - (3) N7—Strategic Debriefer.
 - (4) Q7--Information Collection Planner.
 - (5) Y6 – Open-Source (OSINT) Intelligence Collector (Effective 202610).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen.
 - (b) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmentalized information (SCI).
 - (c) Complete the All-Source Intelligence Technician MI Warrant Officer Basic Course (WOBC).
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the resident MI Warrant Officer Advanced Course (WOAC).
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete Warrant Officer Senior Service Education (WOSSE).
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) The All-Source Intelligence Technician (350F) serves as the expert in charge of intelligence analysis and synchronization at multiple echelons.
 - (b) Responsible for the analysis of information collected from all intelligence sources and intelligence disciplines into finished intelligence analysis in support of commander's decision-making.
 - (c) Advises the commander, staff elements, and intelligence leadership on intelligence planning considerations through analysis and tailored Intelligence products.
 - (d) Manages functions within the intelligence process, military decision-making process, and targeting cycle.
 - (e) Integrates use of automation in support of intelligence analysis and maintains databases to support intelligence processes.
 - (f) May serve as a BISE Chief.
 - (g) May serve as a Discipline Analyst or Functional Manager.—
 - (h) May serve as the Analysis and Fusion Section Officer-in-Charge (OIC)
 - (i) May serve as the Intel Current Ops Team Lead
 - (j) May serve as the Target Development Section OIC
 - (k) May serve as an instructor for Foundry or within a Military Training Center
 - (l) May serve as Chief of OSINT Collection
 - (2) *CW3--*

(a) Directs and performs duties described in paragraph (1).
(b) May serve as an instructor at USAICoE, within a Foundry program, or at a Military Training Center.

(c) May serve on the Military Intelligence Brigade or Battalion staff.
(d) May serve as a commander or OIC as identified in unit manning document or as required.

(e) May serve as an instructor at the WOCC.
(f) May serve as a TRADOC doctrine or battle lab Officer.
(g) May serve as the ACE or Fusion section OIC.
(h) May serve as the senior intelligence analyst for a Corps regional team, Special Operations Group, or within a Combined Joint Task Force.

(i) May serve as a collection manager or deputy collection manager.

(3) CW4--

- (a) Directs and performs duties described in paragraph *g(1) and g(2)*.
- (b) May serve as a Division or Corps Fusion Chief.
- (c) May serve as a Discipline Collection Manager at any echelon.
- (d) May serve as an OC/T at a CTC or MCTP.
- (e) May serve as a Doctrine Writer.
- (f) May serve as a Detachment or Company Commander.
- (g) May serve as an instructor at the WOCC, or at 111th MI BDE.
- (h) May serve on the Joint or Combined Staff.
- (i) May serve as a Doctrine or Capabilities Developer.
- (j) May serve as the HRC MI WO Assignments Manager.

(4) CW5--

(a) MI CW5s are proficient in the duties described in the duties paragraphs of one or more MI WO MOSs.

(b) MI CW5s are branch technical experts and master-level technical and tactical experts who perform the primary duties of technical leader, manager, multidiscipline intelligence integrator, and advisor.

(c) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties

(d) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers and have special warrant officer leadership and representation responsibilities within their respective commands.

(e) Primarily support division, corps, echelons above corps, and major command operations.

(f) Advise commanders and branch assignment managers on the assignments and placement of Military Intelligence warrant officers world-wide.

(g) Provide essential advice to commanders on warrant officer issues and perform other officer level duties as required consistent with senior staff officer responsibilities.

(h) May serve as the Senior WO advisor in MOS immaterial (011A) billets based on technical knowledge and understanding of Army and Joint doctrine

- (i) May serve on the Army Staff.
- (j) May serve as a Capabilities Branch Chief.
- (k) May serve as the MI WO Proponent.
- (l) May serve as the CCWO of the MI Branch.

(m) MI Senior Field Grade Warrant Officers must have completed the WO Senior Service Education Course prior to nomination for specified CW5 billets.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) A physical profile of 222211.

(3) Have normal color discrimination with corrected vision per one of the following three categories of the good eye, bad eye categories: 20/40-20/70; 20/30-20/100; or, 20/20/400,

(4) Have hearing wherein sound amplitude in one ear does not exceed 45 decibels at frequencies 250, 500, 1000, and 2000 CPS (HZ) or 65 decibels at frequency 4000.

(5) Qualifying Scores.

A minimum OPAT score of Long Jump (LG)-120 cm, seated Power Throw (PT)- 350 cm, Strength Deadlift (SD) - Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs, and Interval Aerobic Run (IR) – 36 shuttles in Physical Demands Category “Moderate” (Gold).

(6) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (a) *Table 8-350F-2. Standards of grade TOE/MTOE.*
- (b) *Table 8-350F-3. Standards of grade TDA.*

8-350G. MOS 350G-- Geospatial-Intelligence Imagery Technician (GEOINT Tech)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Pam 611-21.
- c. *MOS 350G.* MOS 350G is an accession MOS. The feeder MOS is 35G.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (*Note: Refer to table 6-6 (Listing of universal ASI's associated with all warrant officer MOS).*)
 - (1) L8--Joint Operational Fires and Effects (in grade W3 only; personnel and positions).
(Effective 202610).
 - (2) Q7--Information Collection Planner.
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen.
 - (b) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmented information (SCI).
 - (c) Complete the Geospatial-Intelligence Imagery Technician MI Warrant Officer Basic Course (WOBC).
 - (d) GPC-F certification is desired.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the resident MI Warrant Officer Advanced Course (WOAC).
 - (c) GPC-II certification is desired.
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete Warrant Officer Intermediate Level Education (WOILE).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Warrant Officer Senior Staff Course (WOSSC).
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Directs Geospatial Intelligence (GEOINT) Operations.
 - (b) Projects GEOINT Requirements in Support of Unified Land Operations.
 - (c) Directs GEOINT in Support of Joint Targeting; Coordinates GEOINT Tasking, Collection, Processing, Exploitation, and Dissemination (TC-PED).
 - (d) Manages GEOINT architecture.
 - (e) Serves as advisor to the Command and staff on GEOINT operations, training, policies, and procedures.
 - (f) Manages GEOINT support to the Military Decision Making Process (MDMP).
 - (g) Employs external capabilities, and integrates automation ISO GEOINT operations.
 - (h) May serve as the GEOINT Section OIC at any echelon.
 - (i) May serve as the GEOINT Production Team Chief at any echelon.
 - (j) May serve as a GEOINT Functional Manager.
 - (k) May serve as a Collection Manager.
 - (2) *CW3--*
 - (a) Directs, plans, and performs duties shown in paragraph g(1).
 - (b) Serves as the principal advisor to senior staff members, decision, and policy makers on GEOINT operations, training, policies, and procedures.
 - (c) Directs GEOINT operational coordination with Joint, Interagency, Intergovernmental, and Multinational partners.

(d) Develops and plans all GEOINT operations IAW applicable laws, policies and treaties.

- (e) May serve as a Discipline Collection Manager at any echelon.
- (f) May serve as a Doctrine Writer.
- (g) May serve as an OC/T at a CTC or MCTP.
- (h) May serve as a Detachment Commander.
- (i) May serve as an instructor at the WOCC, or at 111th MI BDE.
- (j) May serve on the Joint or Combined Staff.
- (k) May serve as a Doctrine or Capabilities Developer.

(3) CW4--

(a) Manages, directs, plans, and performs duties shown in paragraph g(1) and g(2).
(b) Serves as the principal advisor to senior staff members, decision, and policy makers on GEOINT operations, training, policies, and procedures.

(c) Directs GEOINT operational coordination with Joint, Interagency, Intergovernmental, and Multinational partners.

(d) Develops and plans all GEOINT operations IAW applicable laws, policies and treaties.

- (e) May serve as a Discipline Collection Manager at any echelon.
- (f) May serve as an instructor at the WOCC, or at 111th MI BDE.
- (g) May serve on the Joint or Combined Staff.
- (h) May serve as a Doctrine or Capabilities Developer.
- (i) May serve as HRC MI WO Assignments Manager.

(4) CW5--

(a) MI CW5s are proficient in the duties described in the duties paragraphs of one or more MI WO MOSs.

(b) MI CW5s are branch technical experts and master-level technical and tactical experts who perform the primary duties of technical leader, manager, multidiscipline intelligence integrator, and advisor.

(c) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties.

(d) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers and have special warrant officer leadership and representation responsibilities within their respective commands

(e) Primarily support division, corps, echelons above corps, and major command operations.

(f) Advise commanders and branch assignment managers on the assignments and placement of Military Intelligence warrant officers world-wide.

(g) Provide essential advice to commanders on warrant officer issues and perform other officer level duties as required consistent with senior staff officer responsibilities.

(h) May serve as the Senior WO advisor in MOS immaterial (011A) billets based on technical knowledge and understanding of Army and Joint doctrine.

(i) May serve on the Army Staff.

(j) May serve as a Capabilities Branch Chief.

(k) May serve as the MI WO Proponent.

(l) May serve as the CCWO of the MI Branch.

(m) MI Senior Field Grade Warrant Officers must have completed the WO Senior Service Education Course prior to nomination for specified CW5 billets *h. Physical demand rating and qualifications.* Geospatial Intelligence Imagery Technicians must possess the following qualifications:

- (1) Physical Demands Category (PDC) -- Moderate.
- (2) A physical profile of 222211.
- (3) Normal color vision.
- (4) Distance vision correctable to 20/20 standard Snellen.
- (5) Qualifying Scores

- a. Must have normal stereoscopic acuity (depth perception), and received a "Pass" rating of "D," "E," or "F" on the Armed Forces Vision Test (AFVT) with or without correction.
- b. Must have a minimum OPAT score of Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs, and Interval Aerobic Run (IR) – 36 shuttles in Physical Demands Category "Moderate" (Gold).⁽⁶⁾ The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (a) *Table 8-350G-2. Standards of grade TOE/MTOE.*
 - (b) *Table 8-350G-3. Standards of grade TDA.*

8-351L. MOS 351L--Counterintelligence Technician (CI Tech)

- a. *Licensing/certification requirement.* AR 381-14 for SQI W.
- b. *Prerequisites.* DA Pam 611-21 and AR 381-20
- c. *MOS 351L.* MOS 351L is an accession MOS. The enlisted feeder MOS is 35L.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) K--Polygraph Examiner.
 - (4) P--Parachutist.
 - (5) T--Transition (personnel only).
 - (6) Z--Research, Development, Test, and Evaluation Technician.
 - (7) W--Technical Surveillance Countermeasure Technician.
- e. *Associated ASI.* (*Note: Refer to table 6-6 (Listing of universal ASI's associated with all warrant officer MOS).*
 - (1) 1D--Digital Media Collector (Personnel Only).
 - (2) N7—Strategic Debriefer (Effective 201410)
 - (3) J5-- CI Digital Threat Investigator.
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen.
 - (b) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmented information (SCI).
 - (c) Complete the Counterintelligence Technician MI Warrant Officer Basic Course (WOBC).
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the resident MI Warrant Officer Advanced Course (WOAC).
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete Warrant Officer Intermediate Level Education (WOILE).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete Warrant Officer Senior Service Education (WOSSE).
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Directs CI Operations and Investigations as the principal advisor to the Command and staff on CI and other intelligence Operations, training, policies and procedures.
 - (b) Manages CI support to the Military Decision Making Process (MDMP).
 - (c) Employs internal and external capabilities and integrates analysis and automation ISO CI Operations.
 - (d) Conducts all CI activities IAW applicable laws and policies.
 - (e) Serves as a Senior CI Technician responsible for areas of operation within tactical and operational environments worldwide.
 - (f) Performs duties in support of the Threat Awareness and Reporting Program (TARP) and unit Covering Agent Program (CAP) to provide CI Assistance, knowledge, and reporting procedures.
 - (g) Performs evidence custodian duties; directs the CI application process and conducts CI mission management.
 - (h) May serve as a CI Team Chief.
 - (i) May serve as OMT Chief.
 - (j) May serve as BCT S2X CI Tech
 - (k) May serve as CI Field Office/Investigations Team Leader.
 - (2) *CW3--*
 - (a) Directs and performs duties described in paragraph g(1).
 - (b) Directs and supervises all CI elements, activities, special investigative, and collection techniques in Operational and Strategic environments worldwide

- (c) Provides CI technical control, oversight, and management
- (d) Conducts CI operational coordination with joint, intergovernmental, and multinational partners.
- (e) May serve as a Doctrine Writer.
- (f) May serve as a Detachment Commander.
- (g) May serve as an instructor at the WOCC, or at 111th MI BDE.
- (h) May serve on the Joint or Combined Staff.
- (i) May serve as a Doctrine or Capabilities Developer.

(3) CW4--

- (a) Manages, directs and performs duties shown in paragraph g(1) and g(2).
- (b) Directs and supervises all CI elements, activities, and special investigative, and collection techniques in Operational and Strategic environments worldwide.
- (c) Provides CI technical control, oversight, and management.
- (d) Conducts CI operational coordination with joint, intergovernmental, and multinational partners.
- (e) Serves as the principal advisor to senior staff members, decision, and policy makers.
- (f) Provides advice and assistance to the Commander/Senior Intelligence officer on all CI capabilities, activities, and policies and other intelligence operations.
- (g) Develops and plans all CI operations IAW applicable laws and policies.
- (h) May serve as a Doctrine Writer.
- (i) May serve as a Detachment Commander.
- (j) May serve as an instructor at the WOCC, or at 111th MI BDE.
- (k) May serve on the Joint or Combined Staff.
- (l) May serve as a Doctrine or Capabilities Developer.
- (m) May serve as the HRC MI WO Assignments Manager.

(4) CW5--

- (a) MI CW5s are proficient in the duties described in the duties paragraphs of one or more MI WO MOSSs.
- (b) MI CW5s are branch technical experts and master-level technical and tactical experts who perform the primary duties of technical leader, manager, multidiscipline intelligence integrator, and advisor.
- (c) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties.
- (d) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers and have special warrant officer leadership and representation responsibilities within their respective commands
- (e) Primarily support division, corps, echelons above corps, and major command operations.
- (f) Advise commanders and branch assignment managers on the assignments and placement of Military Intelligence warrant officers world-wide.
- (g) Provide essential advice to commanders on warrant officer issues and perform other officer level duties as required consistent with senior staff officer responsibilities.
- (h) May serve as the Senior WO advisor in MOS immaterial (011A) billets based on technical knowledge and understanding of Army and Joint doctrine.
- (i) May serve on the Army Staff.
- (j) May serve as a Capabilities Branch Chief.
- (k) May serve as the MI WO Proponent.
- (l) May serve as the CCWO of the MI Branch.
- (m) MI Senior Field Grade Warrant Officers must have completed the WO Senior Service Education Course prior to nomination for specified CW5 billets

h. *Physical demands category, grading and position titles.*

- (1) Physical Demands Category (PDC) – Moderate.
- (2) A physical profile of 222211.
- (3) Have normal color discrimination with corrected vision per one of the following three categories of the good eye, bad eye categories: 20/40-20/70; 20/30-20/100; or, 20/20/400,

(4) Have hearing wherein sound amplitude in one ear does not exceed 45 decibels at frequencies 250, 500, 1000, and 2000 CPS (HZ) or 65 decibels at frequency 4000.

(5) Qualifying Scores

A minimum OPAT score of Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs, and Interval Aerobic Run (IR) – 36 shuttles in Physical Demands Category “Moderate” (Gold).

(6) The following grade codes are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-351L-2. Standards of grade TOE/MTOE.*

(b) *Table 8-351L-3. Standards of grade TDA.*

8-351M. MOS 351M--Human Intelligence (HUMINT) Collection Technician (HUMINT Coll Tech) (Effective 202410)

- a. Prerequisites. DA Pam 611-21.
- b. MOS 351M. MOS 351M is an accession MOS. The enlisted feeder MOS is 35M/USMC 0211.
- c. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- d. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASI's associated with all warrant officer MOS)).
 - (1) N7--Strategic Debriefer
 - (2) 1D--Digital Media Collector
 - (3) V4--Advanced Source Handler (Effective 20221001)
- e. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen.
 - (b) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmented information (SCI). For clearance requirements to attend training, refer to the Army Training Requirements and Resources System (ATRRS).
 - (c) IAW AR 11-6 Para 7-2b(2) MOS 351M is a language capable MOS.
 - (d) Complete the Human Intelligence Collector Technician MI Warrant Officer Basic Course (WOBC).
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the resident MI Warrant Officer Advanced Course (WOAC).
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(1) *and* (2).
 - (b) Complete Warrant Officer Intermediate Level Education (WOILE).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(1), f(2), *and* f(3).
 - (b) Complete Warrant Officer Senior Service Education (WOSSE).
- f. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Plans and directs interrogation operations, source operations, debriefing operations, screening operations, intelligence liaison operations, and HUMINT analysis.
 - (b) Plans and directs HUMINT scheme of support to multi-domain operations.
 - (c) Integrates cultural intelligence and analysis into HUMINT operations.
 - (d) Serves as the principal advisor to the Command and staff on HUMINT operations, training, policies, and procedures.
 - (e) Performs and manages HUMINT support to the Military Decision Making Process (MDMP).
 - (f) Plans Army HUMINT architecture.
 - (g) Requests, integrates, and employs external capabilities to support HUMINT operations.
 - (h) Performs duties of Operational Management Team Chief, Interrogation Control Element Chief, HUMINT Collection Platform Chief, HUMINT Analysis Cell Chief, and HUMINT staff officer in an S/G2X.
 - (i) May oversee unit language training program.
 - (j) Coordinates with external agencies as needed in support of HUMINT operations.
 - (k) Conducts all HUMINT operations at every echelons IAW applicable laws, policies, treaties, regulations, and unit SOP.
 - (l) May serve as a HUMINT Team/Section Chief at any echelon.
 - (m) May serve as OMT Chief.

(n) May serve as BCT S2X HUMINT Tech.

(2) CW3--

(a) Directs and performs duties described in paragraph e(1).

(b) Synchronizes and assesses interrogation operations, source operations, debriefing operations, screening operations, intelligence liaison operations, and HUMINT analysis.

(c) Plans and directs HUMINT scheme of support to Army, Joint, and combined operations.

(d) Serves as the principal advisor to Army, Joint, and combined commands and staffs on HUMINT operations, training, policies, and procedures.

(e) Performs and manages HUMINT support to the Army, Joint, and combined planning processes.

(f) Plans, directs, and integrates HUMINT architecture.

(g) May oversee command language training program.

(h) Performs duties of HUMINT Operations staff officer in a G/J/C2X.

(i) Conducts all HUMINT operations IAW applicable laws, policies, treaties, regulations, and unit SOP.

(j) May serve as an instructor at the WOCC, or at 111th MI BDE.

(k) May serve on the Joint or Combined Staff.

(l) May serve as a Doctrine or Capabilities Developer.

(m) May serve as an OC/T at a CTC or MCTP.

(3) CW4--

(a) Manages, directs and performs duties shown in paragraph e(1) and e(2)

(b) Synchronizes and assesses interrogation operations, source operations, debriefing operations, screening operations, intelligence liaison operations, and HUMINT analysis in Joint and Combined environments.

(c) Plans and directs HUMINT scheme of support to Joint and Combined operations.

(d) Serves as the principal advisor to Joint/Combined commands and staffs on HUMINT operations, training, policies, and procedures.

(e) Performs and manages HUMINT support to the Joint and Combined planning processes.

(f) Plans, directs, and integrates Joint and Combined HUMINT architecture.

(g) Performs duties of HUMINT Operations staff officer in a G/J/C2X.

(h) Conducts all HUMINT operations IAW applicable laws, policies, treaties, regulations, and unit SOP.

(i) May serve as the HRC MI WO Assignments Manager.

(j) May serve as the MI WO Proponent.

(4) CW5 --

(a) Manages, directs and performs duties shown in paragraph g(1), g(2), and g(3).

(b) MI CW5s are proficient in the duties described in the duties paragraphs of one or more MI WO MOSSs.

(c) Develops and integrates policy governing interrogation operations, source operations, debriefing operations, screening operations, intelligence liaison operations, and HUMINT analysis for Army, Unified Combatant Command (UCC), DoD, and National Agency.

(d) Assesses and ensures readiness of Army HUMINT workforce.

(e) Serves as the principal advisor to HQDA, UCC, DoD, and National Agency on HUMINT operations, training, policies, and procedures.

(f) May oversee Army, UCC, DoD, and National Agency language training program.

(g) Performs duties of HUMINT Operations staff officer in a G/J/C2X, Senior Warrant Officer Advisor, or the Army Senior HUMINT trainer.

(1) MI CW5s are branch technical experts and master-level technical and tactical experts who perform the primary duties of technical leader, manager, multidiscipline intelligence integrator, and advisor.

(2) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties.

(3) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers and have special warrant officer leadership and representation responsibilities within their respective commands.

(4) Primarily support division, corps, echelons above corps, and major command operations.

(5) Advise commanders and branch assignment managers on the assignments and placement of Military Intelligence warrant officers world-wide.

(6) Provide essential advice to commanders on warrant officer issues and perform other officer level duties as required consistent with senior staff officer responsibilities

(h) Conducts all HUMINT operations IAW applicable laws, policies, treaties, regulations, and unit SOP.

(i) May serve as the Senior WO advisor in MOS immaterial (011A) billets based on technical knowledge and understanding of Army and Joint doctrine.

(j) May serve on the Army Staff.

(k) May serve as a Capabilities Branch Chief.

(l) May serve as the MI WO Proponent.

(m) May serve as the CCWO of the MI Branch.

(n) MI Senior Field Grade Warrant Officers must have completed the WO Senior Service Education Course prior to nomination for specified CW5 billets.

g. Physical demands category, grading and position titles.

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) A physical profile of 222211.

(3) Have normal color discrimination with corrected vision per one of the following three categories of the good eye, bad eye categories: 20/40-20/70; 20/30-20/100; or, 20/20/400,

(4) Have hearing wherein sound amplitude in one ear does not exceed 45 decibels at frequencies 250, 500, 1000, and 2000 CPS (HZ) or 65 decibels at frequency 4000.

(5) Qualifying Scores

A minimum OPAT score of Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs, and Interval Aerobic Run (IR) – 36 shuttles in Physical Demands Category “Moderate” (Gold).

(6) Authorized position titles are provided in tables 8-351M-2 and 8-351M-3. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-351M-2. Standards of grade TOE/MTOE.*

(b) *Table 8-351M-3. Standards of grade TDA.*

8-351Y. MOS 351Y--Area Intelligence Technician

- a. *Licensing/certification requirement.* AR 381-14 for ASI 9L.
- b. *Prerequisites.* DA PAM 611-21 and AR 614-115.
- c. *MOS 351Y.* MOS 351Y is not an accession MOS. There is not an enlisted feeder MOS.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.*
 - (1) N7—Strategic Debriefer
 - (2) 1D—Digital Media Collector
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen.
 - (b) Possess a security clearance of TOP SECRET with eligibility for access to sensitive compartmented information (SCI).
 - (c) Complete the Military Intelligence (MI) Warrant Officer Basic Course (WOBC) to include the appropriate MI WOBC Track Course.
 - (2) *CW2 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the resident MI Warrant Officer Advanced Course.
 - (3) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE).
 - (4) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Warrant Officer Senior Service Education (WOSSE).
- g. *Duties.*
 - (1) *WO1/CW2--* (see AR 614-115).
 - (2) *CW3--* (see AR 614-115).
 - (3) *CW4--* (see AR 614-115).
 - (4) *CW5--* (see AR 614-115).
- h. *Physical demands category, grading and position titles.*
 - (1) Physical Demands Category (PDC) – Moderate (Gold).
 - (2) A physical profile of 222211.
 - (3) Have normal color discrimination with corrected vision per one of the following three categories of the good eye, bad eye categories: 20/40-20/70; 20/30-20/100; or, 20/20-20/400.
 - (4) Have a hearing wherein sound amplitude in one ear does not exceed 45 decibels at frequencies 250, 500, 1000, and 2000 CPS (HZ) or 65 decibels at frequency 4000.
 - (5) Qualifying Scores: A minimum OPAT score of Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs, and Interval Aerobic Run (IR) – 36 shuttles in Physical Demands Category “Moderate” (Gold).
 - (6) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (a) *Table 8-351Y-2. Standards of grade TOE/MTOE.*
 - (b) *Table 8-351Y-3. Standards of grade TDA.*

8-351Z. Military Occupational Specialty 351Z--Attaché Intelligence Operations Technician (Attaché Intel Ops Tech)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Pam 611-21 and AR 611-60.
- c. MOS 351Z. MOS 351Z is an accession MOS. ALL enlisted MOS with SQI 7 (Attaché) are eligible to apply. Applicants must have Defense Attaché Service experience.

d. *Associated SQI.*

- (1) 0--No special qualifications.
- (2) 8--Instructor.
- (3) P--Parachutist.
- (4) T--Transition (personnel only).
- (5) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.* (Refer to Table 6-6 for list of Universal ASI associated with this MOS).

f. *Qualifications.*

- (1) WO1/CW2 *must--*
 - (a) Be a U.S. citizen.
 - (b) Possess a valid security clearance of TOP SECRET with eligibility for access to Sensitive Compartmented Information (SCI).
 - (c) Complete the Attaché Intelligence Operations Technician MI Warrant Officer Basic Course.

(2) CW3 *must--*

- (a) Meet qualifications described in paragraph f(1).
- (b) Complete the Warrant Officer Advanced Course (WOAC).
- (3) CW4 *must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Intermediate level Education (WOILE).
 - (c) Complete the MI Warrant Officer Intermediate Level Education (MI WOILE).

(3) CW5 *must--*

- (a) Meet qualifications described in paragraph f(3).
- (b) Complete the Warrant Officer Senior Service Education (WOSSE).
- (c) Complete the MI Warrant Officer Senior Service Education (MI WOSSE).

g. *Duties.*

(1) WO1/CW2--

- (a) Leads joint operations and administrative support teams in Defense Attaché Offices (DAO) at diplomatic missions worldwide.
- (b) Serves as principle advisor to the Senior Defense Official/Defense Attaché (SDO/DATT) and ensures operations are conducted in accordance with requisite policies.
- (c) Represents the Department of Defense (DOD as diplomat and conducts liaison with host nation and third country officials per diplomatic protocols).
- (d) Conducts inter-agency coordination with embassy partners to further DOD efforts and advance US foreign-policy.
- (e) Synchronizes the DAO operations, performs management in support of strategic reporting and ensures compliance with relevant regulations and policies.

(f) Facilitates DOD activities in foreign countries by providing operational, administrative, and logistical support to personnel caring out of DOD initiatives.

(g) Serves as a key contributor to the embassy country team and advocates for DOD equities.

(h) Advises DOD personnel on embassy operations and inter-agency processes.

(i) Plans and manages DAO Administration, policy compliance, finance personnel, reporting, security and logistics.

(2) CW3--

- (a) Performs duties described in paragraph g(1).
- (b) Conducts inspections of both Defense Intelligence Agency internal elements and Defense Intelligence Agency military personnel, and investigations as directed by the Defense Intelligence Agency Inspector General.

(3) CW4--

- (a) Performs duties described in paragraph g(2).

(b) Implements DCSINT, DA, INSCOM, and Commander, FSC policies regarding the administration of Army attaché personnel.

(c) Coordinates policy with Defense Intelligence Agency and HRC; supervises the activities of warrant officers, enlisted personnel, and DA civilians responsible for providing administrative, personnel management, military pay, and Army representational support for Army personnel serving in 90 countries who are affiliated with the Defense Attaché Systems; and provides administrative management of the Army attaché and support staff personnel procurement programs.

(4) CW5 --

(a) Performs duties described in paragraph g(3).

(b) MI Senior Field Grade Warrant Officers are proficient in the duties described for Field Grade Warrant Officers in the duties paragraphs of one or more MI WO MOSs.

(c) MI Senior Field Warrant Officers are branch technical experts and master-level multidiscipline intelligence integrator, and advisor.

(d) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform duties.

(e) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers and have special warrant officer leadership and representation responsibilities within their respective commands.

(f) Advise commanders and branch assignment managers on the assignments and placement of Military Intelligence warrant officers world-wide.

(g) Provide essential advice to commanders on warrant officer issues and perform other officer level duties as required consistent with senior staff officer responsibilities.

(h) May serve as the Senior WO advisor in MOS immaterial (011A) billets based on technical knowledge and understanding of Army and Joint doctrine.

(i) May serve on the Army Staff.

(j) May serve as a Capabilities Branch Chief.

(k) May serve as the MI WO Proponent.

(l) May serve as the CCWO of the MI Branch.

(m) MI Senior Field Grade Warrant Officers must have completed the WO Senior Service Education Course prior to nomination for specified CW5 billets.

g. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) A physical profile of 222211.

(3) Have normal color discrimination with corrected vision per one of the following three categories of the good eye, bad eye categories: 20/40-20/70; 20/30-20/100; or, 20/20/400,

(4) Have hearing wherein sound amplitude in one ear does not exceed 45 decibels at frequencies 250, 500, 1000, and 2000 CPS (HZ) or 65 decibels at frequency 4000.

(5) Qualifying Scores: A minimum OPAT score of Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs, and Interval Aerobic Run (IR) – 36 shuttles in Physical Demands Category “Moderate” (Gold).

(6) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; W5 equals CW5. The grades are listed in the following standards of grade table:

(a) *Table 8-351Z-2. Standards of grade TOE/MTOE.*

(b) *Table 8-351Z-3. Standards of grade TDA.*

8-352N. MOS 352N—Signals Intelligence Analysis Technician (SIGINT Analysis Tech)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Pam 611-21
- c. MOS 352N. MOS 352N is an accession MOS. The enlisted feeder MOS is 35N, 35P, and 35S.

d. *Associated SQI.*

- (1) 0--No special qualifications.
- (2) 8--Instructor.
- (3) P--Parachutist.
- (4) T--Transition (personnel only).
- (5) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASI's associated with all warrant officers MOS).

- (1) L8--Joint Operational Fires and Effects (in grade W3 only; personnel and positions). (Effective 202610)
- (2) Q1--Interactive On-Net Operator (Personnel Only).
- (3) Q2--Target Digital Network Analyst (Personnel Only).
- (4) Q3--Cryptologic Cyber Analyst (Personnel Only).
- (5) Q7—Information Collection Planner.

f. *Qualifications.*

- (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen.
 - (b) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmented information (SCI).
 - (c) Soldiers are required to receive and pass a counterintelligence scope polygraph (CSP) prior to being awarded the MOS and must continue to pass subsequent CSPs to hold the MOS. Soldiers who refuse to take or fail a CSP are no longer qualified in their primary MOS.
 - (d) Soldiers must be eligible to gain system and/or facility access controlled by the NSA. Soldiers who are not granted NSA system and/or facility access after 12 months of access request date will lose qualification in their primary MOS (PMOS). Commanders will initiate reclassification or separation actions for the Soldier. The access request date is defined as the date that the NSA receives a completed Security In-processing Packet. This process begins after the Soldier has received a fully adjudicated TS/SCI clearance and has completed the required CSP.
 - (e) Complete the Signals Intelligence Analyst Technician MI Warrant Officer Basic Course (WOBC).
- (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f12).
 - (b) Complete Warrant Officer Advance Course (WOAC).
- (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete Warrant Officer Level Education (WOILE).
- (4) *CW5 must—*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Warrant Officer Senior Service Education (WOSSE).

g. *Duties.*

- (1) *WO1/CW2 --*
 - (a) Manages personnel and equipment to collect, process, exploit, locate, identify, analyze and report on SIGINT information to support tactical, operational, and strategic requirements across all domains.
 - (b) Establishes priorities and provides guidance and oversight for collection, exploitation, analysis and reporting missions.
 - (c) Manages training for subordinates and peers on technical, operational, and tactical SIGINT skills required to perform the mission.
 - (d) Coordinates staff actions to fulfill all requirements in support of SIGINT mission activities and the Commander's intent.

(e) Advises the commander and staff with regard to tactical and technical SIGINT operations, activities, and personnel.

(f) May serve as Discipline Analyst or Functional Manager at any echelon.

(2) **CW3 --**

(a) Directs and performs duties shown in paragraph g(1)

(b) Directs, plans and conducts SIGINT coordination with Joint, Interagency, Intergovernmental, and Multinational partners.

(c) Enables subordinate processes by working as a liaison between lower echelons and Project Managers (PM), TRADOC Capability Managers (TCM), Joint Services, and Partner Nations.

(d) Advocates for development or modification of policies that ensure concurrence with DoD Directives while meeting Commander's intent; develops and plans all SIGINT operations IAW applicable laws, policies.

(e) May serve as an OC/T at a CTC or MCTP.

(f) May serve as a Doctrine Writer.

(g) May serve as a Detachment Commander.

(h) May serve as an instructor at the WOCC, or at 111th MI BDE.

(i) May serve on the Joint or Combined Staff.

(j) May serve as a Doctrine or Capabilities Developer.

(3) **CW4 --**

(a) Manages, directs and performs duties shown in paragraph g(1) and g(2)

(b) Serves as principal advisor to senior staff members, decision, and policy makers on training, policies, procedures, and SIGINT operations in all domains.

(c) Directs, plans and conducts SIGINT coordination with Joint, Interagency, Intergovernmental, and Multinational partners.

(d) Enables subordinate processes by working as a liaison between lower echelons and Project Managers (PM), TRADOC Capability Managers (TCM), Joint Services, and Partner Nations.

(e) Advocates for development or modification of policies that ensure concurrence with DoD Directives while meeting Commander's intent; develops and plans all SIGINT operations IAW applicable laws, policies.

(f) May serve as an OC/T at a CTC or MCTP.

(g) May serve as a Doctrine Writer.

(h) May serve as an instructor at the WOCC, or at 111th MI BDE.

(i) May serve on the Joint or Combined Staff.

(j) May serve as a Doctrine or Capabilities Developer.

(k) May serve as the HRC MI WO Assignments Manager.

(4) **CW5 --**

(a) MI CW5s are proficient in the duties described in the duties paragraphs of one or more MI WO MOSs.

(b) MI CW5s are branch technical experts and master-level technical and tactical experts who perform the primary duties of technical leader, manager, multidiscipline intelligence integrator, and advisor.

(c) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties.

(d) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers and have special warrant officer leadership and representation responsibilities within their respective commands

(e) Primarily support division, corps, echelons above corps, and major command operations.

(f) Advise commanders and branch assignment managers on the assignments and placement of Military Intelligence warrant officers world-wide.

(g) Provide essential advice to commanders on warrant officer issues and perform other officer level duties as required consistent with senior staff officer responsibilities.

(h) May serve as the Senior WO advisor in MOS immaterial (011A) billets based on technical knowledge and understanding of Army and Joint doctrine.

- (i) May serve on the Army Staff.
- (j) May serve as a Capabilities Branch Chief.
- (k) May serve as the MI WO Proponent.
- (l) May serve as the CCWO of the MI Branch.
- (m) MI Senior Field Grade Warrant Officers must have competed the WO Senior Service Education Course prior to nomination for specified CW5 billets.

h. *Physical demands category, grading and position titles.*

- (1) Physical Demands Category (PDC) – Moderate (Gold).
- (2) A physical profile of 222211.
- (3) Have normal color discrimination with corrected vision per one of the following three categories of the good eye, bad eye categories- 20/40-20/70; 20/30-20/100; or 20/20-20/400.
- (4) Have hearing wherein sound amplitude in one ear does not exceed 45 decibels at frequencies 250, 500, 1000, and 2000 CPS (HZ) or 65 decibels at frequency 4000.
- (5) Qualifying Scores
A minimum OPAT score of Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs, and Interval Aerobic Run (IR) – 36 shuttles in Physical Demands Category “Moderate” (Gold).
- (6) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (a) *Table 8-352N-2. Standards of grade TOE/MTOE.*
 - (b) *Table 8-352N-3. Standards of grade TDA.*

8-352S. MOS 352S--Signals Collector Technician (Sig Coll Tech) (Effective 202211)

a. *Licensing/certification requirement.* None.

b. *Prerequisites.* DA Pam 611-21.

c. MOS 352S. MOS 352S is an accession MOS. The enlisted feeder MOS is 35S. All 352S MOS holders must be graduates of either A-231-0451 (Intermediate Communications Signals Analysis Course) or SIGE3810 (Intermediate Technical Electronic Intelligence Analysis Course), or have completed the Military Cryptologic Signals Analysis Program (MCSAP).

d. *Associated SQI.*

(1) 0--No special qualifications.

(2) 8--Instructor.

(3) P--Parachutist

(4) T--Transition (personnel only).

(5) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.* (Note: Refer to table 6-6 (*Listing of universal ASI's associated with all warrant officer MOS*)).

(1) Q1--Interactive On-Net Operator (Personnel Only).

(2) Q2--Target Digital Network Analyst (Personnel Only)

(3) Q3--Cryptologic Cyber Analyst (Personnel Only).

(4) V3--Aerial Precision Geo-Location (APG). (Rescind 202204)

f. *Qualifications.*

(1) *WO1/CW2 must--*

(a) Be a U.S. citizen.

(b) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmented information (SCI).

(c) Soldiers are required to receive and pass a counterintelligence scope polygraph (CSP) prior to being awarded the MOS and must continue to pass subsequent CSPs to hold the MOS. Soldiers who refuse to take or fail a CSP are no longer qualified in their primary MOS.

(d) Soldiers must be eligible to gain system and/or facility access controlled by the NSA. Soldiers who are not granted NSA system and/or facility access after 12 months of access request date will lose qualification in their primary MOS (PMOS). Commanders will initiate reclassification or separation actions for the Soldier. The access request date is defined as the date that the NSA receives a completed Security In-processing Packet. This process begins after the Soldier has received a fully adjudicated TS/SCI clearance and has completed the required CSP.

(e) Complete the Signals Collector Technician MI Warrant Officer Basic Course (WOBC).

(2) *CW3 must--*

(a) Meet qualifications described in paragraph f(1).

(b) Complete the resident MI Warrant Officer Advanced Course (WOAC).

(3) *CW4 must--*

(a) Meet qualifications described in paragraph f(2).

(b) Complete the Warrant Officer Intermediate Level Education (WOILE)

(4) *CW5 must--*

(a) Meet qualifications described in paragraph f(3).

(b) Complete the Warrant Officer Senior Service Education (WOSSE).

g. *Duties.*

(1) *WO1/CW2 --*

(a) Manages personnel and equipment to collect, process, locate, identify, analyze and report on SIGINT information to support tactical, operational, and strategic requirements across all domains

(b) Manages training for subordinates and peers on technical, operational, and tactical SIGINT skills required to perform the mission

(c) Coordinates staff actions to fulfill all requirements in support of SIGINT mission activities and the Commander's intent.

(d) Advises the commander and staff with regard to SIGINT operations, activities, and personnel.

- (e) May serve as a Discipline Analyst or Functional Manager at any echelon.
- (2) CW3 --
 - (a) Directs and performs duties described in paragraph g(1).
 - (b) Provides technical guidance and direction to subordinate intelligence elements.
 - (c) Utilizes of signals intelligence collection personnel and equipment by the allocations of all non-Morse resources.
 - (d) Manages non-Morse related SIGINT systems to ensure cost and technically effective life-cycle training support is planned and provided for these systems.
 - (e) May serve as a Discipline Collection Manager at any echelon.
 - (f) May serve as a Doctrine Writer.
 - (g) May serve as a Detachment Commander.
 - (h) May serve as an instructor at the WOCC, or at 111th MI BDE.
 - (i) May serve on the Joint or Combined Staff.
 - (j) May serve as a Doctrine or Capabilities Developer.
- (3) CW4--
 - (a) Manages, directs and performs duties shown in paragraph g(1) and g(2).
 - (b) Provides technical guidance and direction to subordinate intelligence elements.
 - (c) Utilizes signals intelligence collection personnel and equipment to conduct the allocations of all non-Morse resources.
 - (d) Manages non-Morse related SIGINT systems to ensure cost and technically effective life-cycle training support is planned and provided for these systems.
 - (e) May serve as a Discipline Collection Manager at any echelon.
 - (f) May serve as a Doctrine Writer.
 - (g) May serve as an instructor at the WOCC, or at 111th MI BDE.
 - (h) May serve on the Joint or Combined Staff.
 - (i) May serve as a Doctrine or Capabilities Developer.
 - (j) May serve as the HRC MI WO Assignments Manager.
- (4) CW5 --
 - (a) MI CW5s are proficient in the duties described in the duties paragraphs of one or more MI WO MOSs.
 - (b) MI CW5s are branch technical experts and master-level technical and tactical experts who perform the primary duties of technical leader, manager, multidiscipline intelligence integrator, and advisor.
 - (c) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties.
 - (d) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers and have special warrant officer leadership and representation responsibilities within their respective commands
 - (e) Primarily support division, corps, echelons above corps, and major command operations.
 - (f) Advise commanders and branch assignment managers on the assignments and placement of Military Intelligence warrant officers world-wide.
 - (g) Provide essential advice to commanders on warrant officer issues and perform other officer level duties as required consistent with senior staff officer responsibilities.
 - (h) May serve as the Senior WO advisor in MOS immaterial (011A) billets based on technical knowledge and understanding of Army and Joint doctrine.
 - (i) May serve on the Army Staff.
 - (j) May serve as a Capabilities Branch Chief.
 - (k) May serve as the MI WO Proponent.
 - (l) May serve as the CCWO of the MI Branch.
 - (m) MI Senior Field Grade Warrant Officers must have competed the WO Senior Service Education Course prior to nomination for specified CW5 billets..
- h. *Physical demands category, grading and position titles.*
 - (1) Physical Demands Category (PDC) – Moderate (Gold).
 - (2) A physical profile of 222211.

(3) Have normal color discrimination with corrected vision per one of the following three categories of the good eye, bad eye categories: 20/40-20/70; 20/30-20/100; or, 20/20/400,

(4) Have hearing wherein sound amplitude in one ear does not exceed 45 decibels at frequencies 250, 500, 1000, and 2000 CPS (HZ) or 65 decibels at frequency 4000.

(5) Qualifying Scores

A minimum OPAT score of Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs, and Interval Aerobic Run (IR) – 36 shuttles in Physical Demands Category “Moderate” (Gold).

(6) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-352S-2. Standards of grade TOE/MTOE.*

(b) *Table 8-352S-3. Standards of grade TDA.*

8-353. MOS 353T—Intelligence Systems Integration and Maintenance Technician (IS Intg/Maint Tech)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Pam 611-21.
- c. *MOS 353T.* MOS 353T is an accession MOS. The enlisted feeder MOS is 35T.
- d. *Associated SQI.*
 - (1) 0-No special qualifications.
 - (2) 7-Parachutist.
 - (3) 8-Instructor.
 - (4) T-Transition (personnel only).
 - (5) Z-Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASI's associated with all warrant officer MOS).)
 - (1) Q1-Interactive On-Net Operator (Personnel Only).
 - (2) Q3-Cryptologic Cyber Analyst (Personnel Only).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen.
 - (b) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmented information (SCI).
 - (c) Complete the Intelligence Systems Integration and Maintenance Technician MI Warrant Officer Basic Course (WOBC).
 - (d) SEC + and NET + certifications are desired.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the resident MI Warrant Officer Advanced Course (WOAC).
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete Warrant Officer Intermediate Level Education (WOILE).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete Warrant Officer Senior Service Education (WOSSE).
- g. *Duties.*
 - (1) *WO1/CW2 --*
 - (a) Provides technical guidance and advice to commanders and staff on the management and utilization of the Army and Joint Forces Military Intelligence /Intelligence, Surveillance, and Reconnaissance (MI/ISR) systems and networks.
 - (b) Oversees shop operations and facility work flow for both ground and airborne ISR systems.
 - (c) Serves as principal advisor to the Command and staff on intelligence maintenance operations, training, policies, and procedures.
 - (d) Employs external capabilities, and integrates automation ISO intelligence maintenance operations.
 - (e) Conducts all intelligence maintenance operations IAW applicable laws, policies.
 - (f) May serve as a Discipline Analyst or Functional Manager at any echelon.
 - (2) *CW3 --*
 - (a) Directs and performs duties described in paragraph g(1).
 - (b) Advises senior staff members, decision, and policy makers on intelligence maintenance operations, training, policies, and procedures.
 - (c) Directs and conducts intelligence maintenance coordination with Joint, Interagency, Intergovernmental, and Multinational partners.
 - (d) Develops and plans all intelligence maintenance operations.
 - (e) May serve as Maintenance Shop OIC.
 - (f) May serve as a Discipline Collection Manager at any echelon.
 - (g) May serve as an OC/T at a CTC or MCTP.
 - (h) May serve as a Doctrine Writer.
 - (i) May serve as a Detachment Commander.
 - (j) May serve as an instructor at the WOCC, or at 111th MI BDE.

(k) May serve on the Joint or Combined Staff.

(l) May serve as a Doctrine or Capabilities Developer.

(3) CW4--

(a) Manages, directs and performs duties described in paragraph g(1) and g(2).

(b) Serves as the principal advisor to senior staff members, decision, and policy makers on intelligence maintenance operations, training, policies, and procedures.

(c) Directs and conducts intelligence maintenance coordination with Joint, Interagency, Intergovernmental, and Multinational partners.

(e) May serve as a Discipline Collection Manager at any echelon.

(f) May serve as an OC/T at a CTC or MCTP.

(g) May serve as a Doctrine Writer.

(h) May serve as an instructor at the WOCC, or at 111th MI BDE.

(i) May serve on the Joint or Combined Staff.

(j) May serve as a Doctrine or Capabilities Developer.

(k) May serve as the HRC MI WO Assignments Manager.

(4) CW5 --

(a) MI CW5s are proficient in the duties described in the duties paragraphs of one or more MI WO MOSs.

(b) MI CW5s are branch technical experts and master-level technical and tactical experts who perform the primary duties of technical leader, manager, multidiscipline intelligence integrator, and advisor.

(c) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties.

(d) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers and have special warrant officer leadership and representation responsibilities within their respective commands

(e) Primarily support division, corps, echelons above corps, and major command operations.

(f) Advise commanders and branch assignment managers on the assignments and placement of Military Intelligence warrant officers world-wide.

(g) Provide essential advice to commanders on warrant officer issues and perform other officer level duties as required consistent with senior staff officer responsibilities.

(h) May serve as the Senior WO advisor in MOS immaterial (011A) billets based on technical knowledge and understanding of Army and Joint doctrine.

(i) May serve on the Army Staff

(j) May serve as a Capabilities Branch Chief

(k) May serve as the MI WO Proponent

(l) May serve as the CCWO of the MI Branch

(m) MI Senior Field Grade Warrant Officers must have competed the WO Senior

Service Education Course prior to nomination for specified CW5 billets.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) Have normal color discrimination with corrected vision per one of the following three categories of the good eye, bad eye categories: 20/40-20/70; 20/30-20/100; 20/20-20/400.

(3) Have hearing wherein sound amplitude in one ear does not exceed 45 decibels at frequencies 250,

(4) Have hearing wherein sound amplitude in one ear does not exceed 45 decibels at frequencies 250, 500, 1000 and 2000 CPS (HZ) or 65 decibels at frequency 4000.

(5) Qualifying Scores

A minimum OPAT score of Long Jump (LJ) – 120 cm, seated Power Throw (PT) – 350 cm, Strength Deadlift (SD) – 120 lbs, and Interval Aerobic Run (IR) – 36 shuttles in Physical Demands Category “Moderate” (Gold).

(6) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-353T-2. Standards of grade TOE/MTOE.*

(b) *Table 8-353T-3. Standards of grade TDA.*

8-390A. Military Occupational Specialty 390A—Robotics Technician (Effective 202510)

- a. *Licensing/certification requirements.* None.
- b. *Prerequisites.* DA Pam 6016.
- c. *MOS 390A.* MOS 390A is an accession MOS. The enlisted / officer feeder MOS are All MOS.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist
 - (3) T--Transition (personnel only).
 - (4) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)).*
 - (1) 4W—Underwater Special Operations.
 - (2) 4X—Military Free Fall Special Forces.
 - (3) D5—Regional Support Element.
 - (4) J4—Jedburgh Operator.
- f. *Qualifications.*
 - (1) WO1/CW2 must—
 - (a) Be a U.S. citizen.
 - (b) Possess a security eligibility of TOP SECRET with eligibility for access to sensitive compartmentalized information (SCI).
 - (c) Successfully complete the Special Operations Robotics Technician Warrant Officer Basic Course.
 - (d) Meet physical standards per AR 40-501, chapter 2.
 - (e) Complete the Warrant Officer Intermediate Course (WOIC).
 - (2) CW3 must--
 - (a) Meet qualifications described in paragraph f,(1).
 - (b) Complete the Warrant Officer Advanced Course (WOAC).
 - (3) CW4 must--
 - (a) Meet qualifications described in paragraph f,(2).
 - (b) Complete the Warrant Officer Senior Course (WOSC).
 - (4) CW5 must--
 - (a) Meet qualifications described in paragraph f,(3).
- g. *Duties.*
 - (1) WO1/CW2--
 - (a) Responsible for the design, build, employment and maintenance of Robotics and Autonomous Systems (RAS).
 - (b) Responsible for the planning and multi-domain integration in support of training and operations.
 - (c) Plans, organizes, implements, monitors, and evaluates operations, threat environment, and unit maintenance of RAS.
 - (d) Advises the Battalion Commander and staff on all RAS.
 - (e) Management of RAS institutional knowledge and emerging technology in support of training and operations.
 - (f) Coordinates with higher and subordinate units for employment of RAS.
 - (g) Develops, publishes, and updates RAS SOP.
 - (2) CW3--
 - (a) Performs duties described in paragraph g(1).
 - (b) Advises the Battalion Commander and staff on all Robotics and Autonomous Systems.
 - (c) Serves as Instructor at the Special Operations Robotics Technician Warrant Officer Basic Course.
 - (3) CW4--
 - (a) Performs duties described in paragraph g(2).

(b) Advises the Special Forces Group Commander and staff on all Robotics and Autonomous Systems.

(4) CW5--

(a) Performs duties described in paragraph g(3).

(b) Advises the Commander on all matters pertaining to warrant officer assignments, professional development, and accessions.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) *Table 8-390A-1.* Physical requirements.

(3) The following grades are used to code positions into one of four definable skill levels: WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-390A-2.* Standards of grade TOE/MTOE.

(b) *Table 8-390A-3.* Standards of grade TDA.

8-420A. Military Occupational Specialty 420A--Human Resources Technician

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Circular 601 series.
- c. *MOS 420A.* MOS 420A is an accession MOS. The enlisted feeder MOSs are those in the MOS 42 series.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.*
 - (1) 1J--Operational Electronic Warfare Operations (personnel only).
 - (2) 1K--Tactical Electronic Warfare Operations (personnel only).
 - (3) 1X--Green Belt in Lean Six Sigma (personnel only).
 - (4) 1Y--Black Belt in Lean Six Sigma (personnel only).
 - (5) 1Z--Master Black Belt in Lean Six Sigma (personnel only).
 - (6) 2B--Air Assault (personnel only).
 - (7) 3R--Force Management.
 - (8) 4J--Postal (use with MOS 420A only).
 - (9) 5W--Jumpmaster (personnel only).
 - (10) 6M--Mobilization and Demobilization Operations.
 - (11) 6P--Master Fitness Trainer.
 - (12) 6Q--Additional Duty Safety Officer (Reserve Component personnel only).
 - (13) 6T--Military Auditor (reserve component personnel only).
 - (14) 7Q--Training Development.
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Human Resources Technician Warrant Officer Basic Course and prerequisite studies for the Warrant Officer Advance Course..
 - (b) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Human Resources Technician Warrant Officer Advance Course.
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Staff Course (WOSC).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Warrant Officer Senior Staff Course (WOSSC).
- g. *Duties.*
 - (1) *WO1/CW2 must--*
 - (a) Manage the personnel readiness management system at assigned command level.
 - (b) Manage the personnel information management system at assigned command level.
 - (c) Manage the personnel accounting and strength reporting system at assigned command level.
 - (d) Manage the casualty information management system at assigned command level.
 - (e) Manage the personnel replacement system at assigned command level.
 - (f) Manage the awards and decorations program at assigned command level.
 - (g) Manage the military personnel evaluations systems at assigned command level.
 - (h) Manage the officer and enlisted promotion systems at assigned command level.
 - (i) Manage the identification documents control and issuance function at assigned command level.
 - (j) Monitor and serve as functional proponent for the leaves and passes program at assigned command level.
 - (k) Manage the line of duty investigation program at assigned command level.
 - (l) Manage the officer procurement program at assigned command level.
 - (m) Manage the officer and enlisted transfer and separation programs at assigned command level.
 - (n) Manage the personnel aspects of the Soldier readiness program.

- (o) Manage the processing of miscellaneous Soldier generated personnel actions.
- (2) *CW3 must--*
 - (a) Performs duties described in paragraph g(1).
 - (b) Performs warrant officer duties at higher command levels.
 - (c) Performs personnel staff officer duties in TOE units and on major command and major subordinate command staffs.
- (3) *CW4 must--*
 - (a) Performs duties described in paragraph g(2).
 - (b) Performs personnel duties at the Combined Arms Command, U.S. Army Recruiting Command, and the U.S. Army Human Resources Command.
- (4) *CW5 must--*
 - (a) Performs duties described in paragraph g(3).
 - (b) Performs personnel duties at MACOM, U.S. Army Human Resources Command, and the Warrant Officer Career Center.

h. *Physical demands category, grading and position titles.*

- (1) A physical demands rating of Moderate (Gold).
- (2) A physical profile of 323222.
- (3) *Table 8-420A-1. Physical requirements.*
- (4) Qualification scores.
 - (a) A minimum OPAT score of Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles in Physical Demand Category in "Moderate" (Gold).
- (5) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (a) *Table 8-420A-2. Standards of grade TOE/MTOE.*
 - (b) *Table 8-420A-3. Standards of grade TDA.*

8-420C. Military Occupational Specialty 420C--Bandmaster

- a. *Licensing/certification requirements.* None.
- b. *Prerequisites.* DA Circular 601 series.
- c. *MOS 420C.* MOS 420C is an accession MOS. The enlisted feeder MOSs is in MOS 42R.
- d. *Associated SQI.*

- (1) 0--No special qualifications.
- (2) 8--Instructor.
- (3) P--Parachutist.
- (4) T--Transition (personnel only).
- (5) Z--Research, Development, Test, and Evaluation Technician.

- e. *Associated ASI.*

- (1) 1J--Operational Electronic Warfare Operations (personnel only).
- (2) 1K--Tactical Electronic Warfare Operations (personnel only).
- (3) 1X--Black Belt in Lean Six Sigma (personnel only).
- (4) 1Y--Green Belt in Lean Six Sigma (personnel only).
- (5) 1Z--Master Black Belt in Lean Six Sigma (personnel only).
- (6) 2B--Air Assault (personnel only).
- (7) 3R--Force Management.
- (8) 5W--Jumpmaster (personnel only).
- (9) 6M--Mobilization and Demobilization Operations.
- (10) 6P--Master Fitness Trainer.
- (11) 6Q--Additional Duty Safety Officer (Reserve Component personnel only).
- (12) 6T--Military Auditor (Reserve Component personnel only).
- (13) 7Q--Training Development.

- f. *Qualifications.*

- (1) *WO1/CW2 must--*
 - (a) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (b) Complete the Army Music Warrant Officer Basic Course.
- (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f (1).
 - (b) Complete the Warrant Officer Advanced Course.
- (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f (2).
 - (b) Complete the Warrant Officer Staff Course (WOSC).
- (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f (3).
 - (b) Complete the Warrant Officer Senior Staff Course (WOSSC).

- g. *Duties.*

- (1) *WO1/CW2--*
 - (a) Conduct or lead Army bands and Music Performance Teams (MPT) in support of official military and civilian ceremonies and functions.
 - (b) Select music appropriate for MPTs and their missions.
 - (c) Direct rehearsals and performances to achieve desired musical effects, technical knowledge, and talents of individual performers.
 - (d) Participate in CONUS and OCONUS civilian and military community relations functions representing the U.S. Army or the United States at the highest national and international levels.
 - (f) Provide subject matter expertise on military traditions, ceremonies, and music to assigned command.
 - (g) Supervise unit personnel in the execution of company level administrative duties.
- (2) *CW3* performs duties described in paragraph g (1).
- (3) *CW4:*
 - (a) Performs duties described in paragraph g (2).
 - (b) Supervise junior WO (WO1/CW2) assigned as unit executive officer.
- (4) *CW5* performs duties described in paragraph g (3).
 - (a) Serve as Army Music Proponency Officer.

(b) Serve as Army School of Music Assistant Director of Training.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (gold).

(2) *Table 8-420A-1. Physical requirements.*

(3) *Physical demands rating for initial award of AOC. Adjutant General's Corps Army*

Music officers must possess the following qualifications:

(a) A physical demands rating of moderate (gold).

(b) A physical profile of 323222.

(c) Qualifying scores. A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, Seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category in “Moderate” (Gold).

(4) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-420C-2. Standards of grade TOE/MTOE.*

(b) *Table 8-420C-3. Standards of grade TDA.*

8-420T. Military Occupational Specialty 420T—Talent Acquisition Technician (Effective 202508)

- a. *Licensing/certification requirement.* Talent Acquisition Certification.
- b. *Prerequisites.* DA PAM 611-21.
- c. *MOS 420T.* MOS 420T is an attribute-based selection accession MOS and not a requirement-based selection. The enlisted feeder MOS is any MOS. All enlisted MOS to complete a comprehensive assessment and selection event that will measure key attributes, metrics of performance, and knowledge of skills related to the field of Talent Acquisitions. The assessment and selection criteria, the makeup of the assessment events and the selection panel will be established, coordinated and executed in coordination with the Adjutant General School and U.S. Army Recruiting Command. Their qualifications with performance evaluations, awards, and certifications in Talent Acquisition, Recruiting, Data Analytics, Information Management, Public relations, or Marketing as assessed through the accession process meets current requirements against a rubric and the WOSB to identify potential candidates to the attribute selection process. Those selected will be selected by a panel based on the attributes and not what qualified them for the WOSB.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* Refer to table 6-5 for listing of universal ASI's associated with all warrant officer MOS.
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Talent Acquisition Technician Warrant Officer Basic Course (WOBC).
 - (b) Be a U.S. citizen.
 - (c) Qualify for security clearance of SECRET.
 - (d) Clear a Department of the Army Suitability Screening
 - (e) Pass a Recruiter Candidate Assessment Screening
 - (f) Complete Talent Acquisition Certification.
 - (g) Complete the Talent Acquisition Technician (WOIC).
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Talent Acquisition Technician Warrant Officer Advance Course.
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Staff Course (WOSC).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Warrant Officer Master Course (if required).
- g. *Duties.*
 - (1) *WO1/CW2 must--*
 - (a) Perform basic to intermediate level of data literacy to include the ability to consolidate multiple data sets using data visualization tools.
 - (b) Perform basic level of understanding and ability to utilize Human Resources and USAREC systems at assigned command level.
 - (c) Conduct local marketing analysis.
 - (d) Understand marketing plans.
 - (e) Develop local marketing strategies.
 - (f) Employs advertising and content distribution.
 - (g) Conduct contract attribution.
 - (h) Conduct targeting.
 - (i) Understand how to integrate and the fusion process within the organization.
 - (j) Advise command on talent acquisition operations that support current recruiting operations at assigned command level.
 - (k) Analyze processing efficiency data at assigned command level.
 - (l) Develop external networks.
 - (2) *CW3 must--*

(a) Performs duties described in paragraph g(1).

(b) Performs warrant officer duties at higher command levels.

(c) Performs Talent Acquisition duties in support of Cadet Command, Innovation organizations and

Regional Marketing Offices.

(3) *CW4 must--*

(a) Performs duties described in paragraph g(2).

(b) Performs personnel duties at the U.S. Army Recruiting Commands and Adjutant General's School (AGS).

(4) *CW5 must--*

(a) Performs duties described in paragraph g(3).

(b) Performs personnel duties at U.S. Army Recruiting Command and HQs Department of the Army G1.

h. *Physical demands category, grading and position titles.*

(1) A physical demands rating of Moderate (Gold).

(2) *Table 8-420T-1. Physical requirements.*

(3) Qualification scores.

(a) A minimum OPAT score of Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles in Physical Demand Category in "Moderate" (Gold).

(4) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-420T-2. Standards of grade TOE/MTOE.*

(b) *Table 8-420T-3. Standards of grade TDA.*

8-420T. Military Occupational Specialty 420T—Talent Acquisition Technician (Effective 202710)

- a. *Licensing/certification requirement.* Talent Acquisition Certification.
- b. *Prerequisites.* DA PAM 611-21.
- c. *MOS 420T.* MOS 420T is an accession MOS. The enlisted feeder MOS is any MOS. All enlisted MOS who can substantiate their qualifications with performance evaluations, awards, and certifications in Talent Acquisition, Recruiting, Data Analytics, Information Management, Public relations, or Marketing as assessed through the accession process meets current requirements.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* Refer to table 6-5 for listing of universal ASI's associated with all warrant officer MOS.
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Talent Acquisition Technician Warrant Officer Basic Course (WOBC).
 - (b) Be a U.S. citizen.
 - (c) Qualify for a security clearance of SECRET.
 - (d) Complete Talent Acquisition Certification.
 - (e) Complete the Talent Acquisition Technician WOIC.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Talent Acquisition Technician Warrant Officer Advance Course.
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Staff Course (WOSC).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Warrant Officer Master Course (if required).
- g. *Duties.*
 - (1) *WO1/CW2 must--*
 - (a) Perform basic to intermediate level of data literacy to include the ability to consolidate multiple data sets using data visualization tools.
 - (b) Perform basic level of understanding and ability to utilize Human Resources and USAREC systems at assigned command level.
 - (c) Conduct local marketing analysis.
 - (d) Understand marketing plans.
 - (e) Develop local marketing strategies.
 - (f) Employs advertising and content distribution.
 - (g) Conduct contract attribution.
 - (h) Conduct targeting.
 - (i) Understand how to integrate and the fusion process within the organization.
 - (j) Advise command on talent acquisition operations that support current recruiting operations at assigned command level.
 - (k) Analyze processing efficiency data at assigned command level.
 - (l) Develop external networks.
 - (2) *CW3 must--*
 - (a) Performs duties described in paragraph g(1).
 - (b) Performs warrant officer duties at higher command levels.
 - (c) Performs Talent Acquisition duties in support of Cadet Command, Innovation organizations and Regional Marketing Offices.
 - (3) *CW4 must--*
 - (a) Performs duties described in paragraph g(2).
 - (b) Performs personnel duties within U.S. Army Recruiting Commands and Adjutant General's School (AGS).

(4) CW5 *must*--

(a) Performs duties described in paragraph g(3).

(b) Performs personnel duties within U.S. Army Recruiting Command and HQs Department of the Army G1.

h. *Physical demands category, grading and position titles.*

(1) A physical demands rating of Moderate (Gold).

(2) *Table 8-420T-1. Physical requirements.*

(3) Qualification scores.

(a) A minimum OPAT score of Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles in Physical Demand Category in "Moderate" (Gold).

(4) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-420T-2. Standards of grade TOE/MTOE.*

(b) *Table 8-420T-3. Standards of grade TDA.*

8-490B. Military Occupational Specialty 490B – Artificial Intelligence and Machine Learning Operations Technician (Effective 202610)

a. *Licensing/certification requirement.* NA.

b. *Prerequisites.* DA Pam 611-21.

c. *MOS 490B.* MOS 490B is an accession MOS. The enlisted feeder MOS is any MOS.

Candidates must possess the following qualifications.

(a) Must be SGT (E-5) or Above

(b) Must have completed Warrior Leaders Course (WLC)

(b) Must meet all Administrative Requirements to become a Warrant Officer.

- Be a U.S. citizen (No waivers)

- Possess a SECRET with eligibility to obtain TOP SECRET (No waivers)

- ASVAB GT Score of 110 (No waivers)

- High-School Graduate or GED (No waivers)

- Pass Commissioning Physical

d. *Associated SQI.*

(1) 0--No special qualifications.

(2) 8--Instructor.

(3) P--Parachutist.

(4) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.*

2V: Artificial Intelligence Technician

Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)).

f. *Qualifications.*

(1) All applicants must apply, be accepted, and graduate from the Army's Artificial Intelligence Technician Training Program (AITP). Additionally, applicants must be fulfilling, or have completed, the AITP two-year utilization within the Army's Artificial Intelligence Integration Center.

(2) WO1/CW2 must--

(a) Be a U.S. citizen. Possess a TOP SECRET security clearance with eligibility for access to sensitive compartmented information (SCI).

(b) Complete 490B Artificial Intelligence and Machine Learning (AI/ML) Operations Technician Warrant Officer Basic Course.

(c) Possess a 490B Additional Skill Identifier (ASI)

- 2V: AI Technician

(d) Upon completion of 490B AI/ML Operations Technician Warrant Officer Basic Course, WOs incur a 6-year term of service obligation.

(3) CW3 must—

(a) Meet qualifications described in paragraph f (2).

(b) Complete the Warrant Officer Advanced Common Core.

(c) Complete 490B AI/ML Operations Technician Warrant Officer Advanced Course.

(4) CW4 must—

(a) Meet qualifications described in paragraph f (3).

(b) Complete the Warrant Officer Intermediate Level Education (WOILE).

(5) CW5 must—

(a) Meet qualifications described in paragraph f (4).

(b) Complete the Warrant Officer Senior Service Education (WOSSE).

g. *Duties.*

(1) WO1/CW2 must-

(a) A Basic-level AI/ML Operations Technician applies fundamental skills of cloud native software development, data engineering, DevSecOps, AI model deployment, and computer scripting languages to facilitate AI solution development. Monitor, test, deploy, orchestrate, and maintain the development of AI solutions. Collaborate with Cyber and Signal team members to integrate appropriate security features, articulate network requirements, complete necessary documentation and diagrams to enable AI solution deployment onto Department of Defense Information Networks.

(b) Integrate into a multi-disciplined team comprised of Software, Cyber, Signal, and Operational Research and Systems Analysis (ORSA) personnel.

(c) Complete assigned tasks and modules, as required and assigned by a Senior- or Master-level level AI/ML Operations Technician.

(2) CW3 must--

(a) Perform duties described in paragraph g (1).

(b) An Advanced-level AI/ML Operations Technician leverages Lean and Agile methodologies and management practices to lead AI-focused development projects. Collaborates with software, Cyber, Signal, and ORSA teams to determine organizational requirements and design feasible and maintainable solutions to address gaps. Integrates new practices or technologies into current operations. Provides training, direction, and oversight to Basic-level AI/ML Operations Technicians. Provides mentorship and talent management for career progression of Junior Warrant Officers.

(c) An Advanced-level AI/ML Operations Technician is responsible for completing assigned tasks and modules, as required and assigned by a Senior-level AI/ML Operations Technician.

(3) CW4 must--

(a) Perform duties described in paragraph g (1 & 2).

(b) A Senior-level AI/ML Operations Technician possesses skills in negotiation, policy analysis, and development. Can demonstrate knowledge in force management and emerging technologies.

(c) Serves as a principal advisor to decision- and policy makers on AI/ML Operations training, policies, procedures, and best practices for AI capability development and deployment. Responsible for collaborating on operational and strategic-level solutions.

(d) Set conditions for training and mentorship of Basic and Advanced AI/ML Technicians. Reinforce training carrier progression opportunities and cross-functional collaboration to share best practices.

(4) CW5 must--

(a) Perform duties described in paragraph g (1, 2, & 3).

(b) Deliver master-level technical and tactical expertise on the primary duties of technical leader, manager, multidiscipline AI/ML integrator, and advisor.

(c) Provide direction, guidance, resources, assistance, and supervision necessary for subordinates to perform their duties.

(d) Support commanders with the development of new AI/ML Operations doctrine, organizational structure, methods and equipment to be utilized by AI/ML Operations Technicians.

(e) Provide leader development, talent and lifecycle management, mentorship, advice, and counsel to enlisted Soldiers, warrant officers, and branch officers.

(f) Possess special leadership abilities that interprets the commander's intent and mission to support Multi-Domain Operations (MDO), representing and advising on the responsibilities of AI/ML Operations within their respective AOR.

(g) Primarily support corps, echelons above corps, major command, Joint, Interagency, Intergovernmental, and Multinational operations.

h. *Physical demands category, grading, and position titles.*

(1) Physical Demands Category (PDC) – Moderately Heavy.

(2) Meet physical standards per AR 40-501, chapter 2.

(3) Have 20/40 correctable vision per AR 40-501, paragraphs 2-13 and 5-17 and meet hearing standards of AR 40-501, paragraphs 2-7 and 5-18.

(4) *Table 8-280A-1. Physical requirements.*

(a) A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles Physical Demand Category in "Moderate" (Gold).

(5) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables: Table 8-280A-3. Standards of grade TDA.

8-640. Military Occupational Specialty 640A--Food Safety Officer

a. *Licensing/certification requirement.* None.

b. *Prerequisites.* DA Cir 601 series.

c. *MOS 640A.* MOS 640A is an accession MOS. The enlisted feeder MOS are 68R or 68S MOS, NCOES, grade and time-in-service prerequisites can be waived if the applicant has a BS or MS degree in one of these specialties: Food Science, Food Technology, Food Chemistry, Food Microbiology, Food Quality Assurance, Food Defense, Quality Engineering, Public Health, Environmental Health or Environmental Sanitation. Requests for waivers must be routed through the Food Safety Warrant Officer Consultant, subject to approval by the Chief, Veterinary Corps.

d. *Associated SQI.*

(1) 0--No special qualifications.

(2) 8--Instructor.

(3) P--Parachutist.

(4) T--Transition (personnel only).

(5) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.*

(1) 2B--Air Assault (personnel only).

(2) 3R--Force Management.

(3) 5W--Jumpmaster (personnel only).

(4) 6M--Mobilization and Demobilization Operations.

(5) 6P--Master Fitness Trainer.

(6) 6T--Military Auditor (Reserve Component personnel only).

(7) 7Q--Training Development.

(8) Q6--Protection Cell Operations (personnel only) (Effective 202410).

f. *Qualifications.*

(1) *WO1 must--*

(a) Complete Warrant Officer Candidate School.

(b) Have an associate degree or higher from an accredited college.

(c) Be a U.S. citizen. Qualify for a security clearance of SECRET.

(2) *CW2 must--*

(a) Meet the qualifications described in paragraph f(1).

(b) Complete the Veterinary Corps Food Safety Officer Basic Course (640A).

(3) *CW3 must--*

(a) Meet qualifications described in paragraph f(2).

(b) Complete the AMEDD Captain's Career Course (that includes the Food Safety Warrant Officer Advanced Technical Track).

(c) Complete the Action Officer Development Course (ACCP 13 POO) by distance learning.

(d) Obtain a BS/MS food science degree or related discipline for assignment to designated key positions.

(4) *CW4 must--*

(a) Meet qualifications described in paragraph f(3).

(b) Complete the Warrant Officer Staff Course (WOSC), including the Food Safety Officer WOSC follow-on course.

(c) Obtain a BS/MS food science degree or related discipline for assignment to designated key positions.

(5) *CW5 must--*

(a) Meet qualifications described in paragraph f(4).

(b) Complete the Warrant Officer Senior Staff Course (WOSSC).

(c) Obtain a BS/MS food science degree or related discipline for assignment to designated key positions.

g. *Duties.*

(1) *WO1/CW2--*

(a) Manages and directs military food safety and quality assurance programs to include personnel, facilities, and equipment under the guidance and supervision of the senior Veterinary Corps Officer (VCO).

(b) Organizes and conducts commercial sanitation audits and military sanitation inspections, recognizes sanitation deficiencies, and determines sanitary compliance ratings of civilian and government facilities that produce, process, prepare, manufacture, store, or otherwise handle subsistence.

(c) Provides technical advice concerning food safety, food defense, quality assurance issues to Medical Brigade/Group Command and Staff, military acquisition, supply, and retail activities.

(d) Identifies and provides technical information concerning microbiological, chemical, and physical deterioration of subsistence.

(e) Interfaces with DoD, Federal, State, local, and host-nation inspection authorities and regulatory health agencies concerning food safety and quality assurance matters.

(f) Observes, records, and reports on subsistence problems that may have public health significance.

(g) Interviews patients and collects data on food borne disease of public health significance to assist epidemiological investigations.

(h) Develops/conducts food safety and quality assurance training to support local unit mission requirements.

(2) CW3--

(a) Performs duties described in paragraph g(1).

(b) Provides supervision/guidance for food safety, food defense and quality assurance programs in a tactical environment at Division/Corps level to include slaughter and processing of food animals in emergency situations and the procurement of food stocks from foreign establishments.

(c) Provides technical advice on food safety, food defense, and quality assurance engineering principles for the acquisition, assembly, storage, and distribution of operational rations for DoD.

(3) CW4--

(a) Performs duties described in paragraph g(2).

(b) Provides guidance for food safety, food defense and quality assurance programs to subordinate food inspection elements or other staff elements in a tactical environment at echelons above Corps or at a Major Medical Command Regional Medical Center.

(c) Serves as the technical consultant on the staff of the Senior Veterinary Officer within a tactical theater of operations or at a Major Medical Command Regional Medical Center concerning all food inspection matters.

(d) Provides guidance and technical advice concerning Statistical Process Control (SPC), Systems Auditing, Total Quality Management (TQM), and other quality engineering programs as a Quality Engineer at selected positions on the senior staff at a Major Medical Command or DoD Acquisition Agency Headquarters.

(4) CW5--

(a) Performs duties described in paragraph g(3).

(b) Serves as the technical consultant on the staff of the Senior Veterinary Officer at a Major Medical Command concerning all food inspection matters.

(c) Provides guidance and technical advice to subordinate food inspection elements or other staff elements providing food inspection support to all levels of the Armed Forces.

(d) May serve as the Chief Warrant Officer of the Veterinary Corps Branch and Consultant to the Chief of the Veterinary Corps and the Surgeon General.

h. *Physical Demands Rating and qualifications for initial awarding of MOS.*

(1) Have 20/20 correctable vision, normal color discrimination per AR 40-501, full use of both hands, and a keen sense of smell.

(2) A physical profile of 222222.

(3) A Physical demands rating of Moderate (Gold).

(4) Qualifying Scores: A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm., Seated Power Throw (PT) – 0350 cm., Strength Deadlift (SD) – 0120 cm., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category “Moderate” (Gold).

(5) *Table 8-640A-1. Physical requirements.*

(6) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (a) *Table 8-640A-2. Standards of grade TOE/MTOE.*
- (b) *Table 8-640A-3. Standards of grade TDA.*

8-670A. Military Occupational Specialty 670A--Health Services Maintenance Technician

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Cir 601 series.
- c. *MOS 670A.* MOS 670A is an accession MOS. The enlisted feeder MOS is 68A.
- d. *Restrictions.* No record of conviction by special or general courts-martial or civilian courts of offenses listed in AR 27-10 (Military Justice), chapter 24 or otherwise required to register as a sexual offender under AR 27-10, chapter 24.
- e. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- f. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)).
 - (1) N8--Sustainment Systems Master Gunner (SSMG) (Effective 202504)
 - (2) Q6--Protection Cell Operations (personnel only) (Effective 202410).
- g. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Health Services Maintenance Technician Warrant Officer Basic Course.
 - (b) Be a U.S. citizen. Qualify for a security clearance of Secret.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the AMEDD Officer Advanced Course.
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Staff Course (WOSC).
 - (c) Complete the USAMMA Course.
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Warrant Officer Senior Staff Course (WOSSC).
- h. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Supervises personnel and allocates resources to install, maintain and repair optical, dental, and medical technical diagnostic and treatment equipment and medical laboratory equipment at organizational and intermediate direct support level.
 - (b) Supervises personnel who maintain equipment and utilities in associated health service support fields.
 - (c) Distributes workload among subordinate and makes in process and quality assurance inspections of work.
 - (d) Repairs, modifies, and rehabilitates medical systems and subsystems.
 - (e) Performs scheduled (preventive maintenance) and unscheduled (repair) services on medical and related equipment.
 - (f) Serves as technical consultant to all members of the hospital staff for maintenance matters.
 - (g) Serves as contracting officer's representative for equipment installation or service contracts.
 - (h) Instructs personnel in use of equipment and its care.
 - (i) Reviews internal operating procedures; instructs subordinates on section operations and repair procedures.
 - (j) Acquires and provides data regarding budget, maintenance, supply, and safety as required.
 - (k) Compiles data for material status reports DA Form 2406 (Materiel Condition Status Report).
 - (l) Provides training to subordinates in military, administrative, and technical matters.

- (m) Takes action in support of the procurement of medical equipment.
- (n) Reads and interprets for other electrical diagrams, schematic drawings, engineering specifications, and blueprints.
- (o) Provides data in support of research, development, test and evaluation of medical equipment.
- (p) Supervises maintenance of organic equipment, tools, and test sets.
- (q) Prepares drawings, sketches, notes and other materials for installation of equipment.
- (r) Develops plans for design and layout of equipment facilities for medical laboratory, operating room, sterile supply, etc.
- (s) Presents written or oral briefings to line, staff, and professional personnel on maintenance related subject matter.
- (t) Provides technical data to implement automated maintenance management systems.
- (u) Inspects inoperative equipment, develops cost estimates for repair, and makes appropriate recommendations to Commander regarding economies of repair or replacement.
- (v) Advises on and supervises use of oscilloscopes, voltmeters and other test equipment to isolate equipment malfunctions.
- (w) Performs other officer level duties essential to the mission of the unit to which assigned.

(2) *CW3--*

- (a) Performs duties described in paragraph g(1).
- (b) Develops maintenance policy and procedures for use by all AMEDD commands and organizations.

(3) *CW4--*

- (a) Performs duties described in paragraph g(2).
- (b) Performs duties as an intermediate general support or depot support maintenance officer providing corps or theater level maintenance support to a variety of health care organizations/units.
- (c) Responsible for overall readiness and mission performance factors related to maintenance.

(4) *CW5--*

- (a) Performs duties described in paragraph g(3).
- (b) Responsible for the maintenance elements of life cycle systems management.
- (c) Develops programs to enhance training of other warrant officer and enlisted MOSs.
- (d) Provides maintenance policy and guidance through the Surgeon General to all major commands and theater of operations.
- (e) Represents the Army Medical Department at DOD level committees, boards, and joint working groups.

i. *Physical Demands Rating and qualifications for initial awarding of MOS.*

- (1) Have 20/20 (correctable vision, eye-hand coordination, manual dexterity, normal color perception per AR 40-501, and have normal hearing per AR 40-501.
- (2) A physical profile of 222222.
- (3) A physical demands rating of Moderate (Gold).
- (4) Qualifying Scores: A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm., Seated Power Throw (PT) – 0350 cm., Strength Deadlift (SD) – 0120 cm., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category “Moderate” (Gold).

j. *Physical requirements. Table 8-670A-1.*

k. *Grading of positions.* The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (a) *Table 8-670A-2. Standards of grade TOE/MTOE.*
- (b) *Table 8-670A-3. Standards of grade TDA.*

8-740. Military Occupational Specialty 740A-Chemical, Biological, Radiological and Nuclear (CBRN) Warrant Officer

a. *Licensing/certification requirement.* None.

b. *Prerequisites.* DA Circular 601 series.

c. *MOS 740A.* MOS 740A is an accession MOS. The primary enlisted MOS feeders are 74D (CBRN Specialist).

d. *Associated SQI.*

- (1) 0-No special qualifications.
- (2) 8—Instructor.
- (3) P—Parachutist.
- (4) T—Transition (personnel only).

e. *Associated ASI.*

- (1) L3 – Advanced CBRNE Enabler
- (2) L6--Chemical, Biological, Radiological and Nuclear (CBRN) Reconnaissance
- (3) Q6--Protection Cell Operations (personnel only) (Effective 202410).

f. *Qualifications.*

(1) WO1/CW2 must--

- (a) Successfully complete the CBRN Warrant Officer Basic Course (WOBC).
- (b) Have 20/20 correctable vision and normal color discrimination per AR 40-501.
- (c) Have normal hearing.
- (d) Be a U.S. citizen. Qualify for a security clearance of SECRET.

(2) CW3 must--

- (a) Meet qualification described in paragraph f(1).
- (b) Successfully complete the CBRN Warrant Officer Advanced Course (WOAC).

(3) CW4 must--

- (a) Meet qualification described in paragraph f(2).
- (b) Successfully complete the Warrant Officer Staff Course (WOSC).

(4) CW5 must--

- (a) Meet qualification described in paragraph f(3).
- (b) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).

g. *Duties.*

(1) WO1/CW2--

- (a) Serves as the standards and certification technician in a narrow technical functional area, in a CBRN Company and a CBRN Response Team in a Technical Escort Company.
- (b) Manage, instruct and supervise personnel in the technical aspects of CBRN operations.
- (c) Manage the company/team Hazardous Material (HAZMAT) certification program.

(d) Estimate requirements for personnel, equipment, user/organizational maintenance and repair of CBRN systems.

(e) Review, consolidate and prepare technical reports associated with CBRN operations in assigned unit.

(f) Assist in coordination and implementation of CBRN operations, and training programs.

(g) Develop standard operating procedures and performs administrative duties related to CBRN operations.

(2) CW3--

(a) Perform duties described in paragraph g(1).

(b) Serves as a CBRN technician in mid-level management positions; generally in CBRN Battalion and Division CBRN Staffs.

(c) Serves as the division commander's senior technical advisor/analyst in all areas of CBRN operations.

(d) Provide technical guidance to personnel of supported units/activities in order to establish and maintain adequate CBRN operation techniques for mission accomplishment.

(3) CW4--

(a) Performs duties described paragraphs g(2).

(b) Serves as the senior CBRN technician in positions requiring advanced level technical skills; generally at CBRN BN, CBRN BDE, and Corps CBRN staffs

- (c) Responsible for coordinating CBRN operation activities with all subordinate units and integrating CBRN operations with higher echelon organizations.
- (d) Provides direct interface with elements involved in joint, interagency, intergovernmental, multinational (JIIM), and combined arms CBRN operations.
- (e) Serves in positions requiring advanced technical skills to perform duties related to CBRN training and evaluation and the development of standard operating policy and doctrine.
- (f) Instructs and provides technical advice in the management and maintenance of CBRN operation systems.

(4) CW5--

- (a) Performs duties as described in paragraphs g(3).
- (b) Serves as the most senior CBRN technician in positions that require unusual depth and breadth of technical knowledge for functional training and curriculum development or major systems integration skills.
- (c) Provides technical advice and assistance in regards to CBRN operations in CBRN BDEs, to include all aspects of training, personnel, doctrine, force structure, requirements and use/maintenance of CBRN operations systems.
- (d) Develop, review and updates the life-cycle management of the CBRN technician's structure and force.
- (e) Perform duties as proponent level personnel systems integrator.
- (f) Instructs and monitors students in a service school environment.

h. Physical demands category, grading and position titles.

- (1) Physical Demands Category (PDC) – Moderate (Gold).
- (2) Qualifying Scores.

A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, Seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 Shuttles in Physical Demand Category “Moderate” (Gold).

- (3) *Table 8-740A-1. Physical requirements.*

(4) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; W5 equal CW5. The grades are listed in the following standards of grade tables:

- (a) *Table 8-740A-2. Standard of grade TOE/MTOE.*
- (b) *Table 8-740A-3. Standards of grade TDA.*

8-880A. Military Occupational Specialty 880A--Marine Deck Officer

a. *Licensing/certification requirement.* AR 56-9. Must meet the academic and vessel-specific requirements of U.S. Army marine license annotated "Master of Class A-1 Freight and Towing Motor Vessels Upon Coastal and Inland Waters; Mate of Class A-2 Unlimited Motor Vessels Upon Oceans; Radar Observer."

b. *Prerequisites.* AR 56-9 and DA Cir 601 series.

c. *MOS 880A.* MOS 880A is an accession MOS. The enlisted feeder MOS is 88K.

d. *Associated SQI.*

(1) 0--No special qualifications.

(2) 1--Marine Deck Officer.

(3) 2--Marine Engineering Officer.

(4) 8--Instructor.

(5) P--Parachutist.

(6) T--Transition (personnel only).

(7) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.*

(1) 2B--Air Assault (personnel only).

(2) 3R--Force Management.

(3) 5W--Jumpmaster (personnel only)

(4) 6M--Mobilization and Demobilization Operations.

(5) 6P--Master Fitness Trainer.

(6) 6T--Military Auditor (Reserve Component personnel only).

(7) 7Q--Training Development.

f. *Qualifications.*

(1) *WO1/CW2 must--*

(a) Complete the Marine Deck Officer Warrant Officer Basic Course.

(b) Be certified and licensed at the 880A1 skill level, per AR 56-9.

(c) Have a physical profile of not less than 222221, per AR 40-501.

(d) Have a distance visual acuity, which corrects to at least 20/20 in one eye, and 20/40 in the other eye.

(e) Have a normal color vision based on no more than four errors in reading the pseudo isochromatic plates test.

(f) Be a U.S. citizen. Qualify for a security clearance of SECRET.

(g) After four years of Marine Deck Officer service, complete the Marine Deck Officer A2 Course for SQI 2 certification.

(i) Be certified at the 880A2 skill level, per AR 56-9.

(j) A minimum OPAT score of Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles.

(2) *CW3 must--*

(a) Meet qualifications described in paragraph f(1).

(b) Complete the Marine Deck Officer Warrant Officer Advanced Course.

(3) *CW4 must--*

(a) Meet qualifications described in paragraph f(2).

(b) Complete the Warrant Officer Staff Course (WOSC).

(4) *CW5 must--*

(a) Meet qualifications described in paragraph f(3).

(b) Complete the Warrant Officer Senior Staff Course (WOSSC).

g. *Duties.*

(1) *WO1/CW2--*

(a) Commands Army Class A1 vessels operating on lakes, bays, sounds, and coastal waters.

(b) Is responsible for proper operation of vessel including discipline of crew and seaworthiness of vessel.

(c) Navigates vessel using nautical charts, area plotting sheets, compass, sextant, terrestrial bearings, and electronic navigational aids.

- (d) Directs course of vessel to avoid surface and underwater hazards, to include areas where ice is seen or reported.
- (e) Directs operation of ship-to-ship and ship-to-shore radio and visual communication systems.
- (f) Directs fueling, ballasting, trimming operations, and cargo stowage.
- (g) Assigns crew to general watches and prepares station bills.
- (h) Inspects vessel to ensure crew and passengers observe operational and safety regulations and procedures.
- (i) Maintains vessels on board records to include the Official Vessel Log.

(2) *CW3--*

- (a) Performs duties described in paragraph g(1).
- (b) Commands Army Class A2 vessels operating upon oceans.
- (c) Performs Harbormaster duties controlling all port operations, to include safety, security, maintenance, Marine communications, vessel berthing, and movements.
- (d) Provides technical guidance and direction in regard to Marine related issues at battalion level.

(3) *CW4--*

- (a) Performs duties described in paragraph g(2).
- (b) Commands watercraft detachments either afloat or ashore.
- (c) Provides technical guidance and direction in regard to Marine related issues above battalion level.

(4) *CW5--*

- (a) Performs duties described in paragraph g(3).
- (b) Performs as technical or functional systems integrator at senior staff level.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) - Moderate (Gold).

(2) *Table 8-880A-1.* Physical requirements.

(3) Authorized position titles are provided in table 6-2. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (a) *Table 8-880A-2.* Standards of grade TOE/MTOE.
- (b) *Table 8-880A-3.* Standards of grade TDA.

8-881A. Military Occupational Specialty 881A--Marine Engineering Officer

a. *Licensing/certification requirement.* AR 56-9. Must meet the academic and vessel-specific requirements of U.S. Army Marine License annotated: "Chief Engineer of Class A-1 Motor Vessels; Assistant Engineer of Class A-2 Unlimited Motor Vessels."

b. *Prerequisites.* AR 56-9 and DA Cir 601 series.

c. *MOS 881A.* MOS 881A is an accession MOS. The enlisted feeder MOSs are 21P and 88L with ASI S2.

d. *Associated SQI.*

- (1) 0--No special qualifications.
- (2) 1--Marine Deck Officer.
- (3) 2--Marine Engineering Officer.
- (4) 8--Instructor.
- (5) P--Parachutist.
- (6) T--Transition (personnel only).
- (7) Z--Research, Development, Test, and Evaluation Technician.

e. *Associated ASI.*

- (1) 2B--Air Assault (personnel only).
- (2) 3R--Force Management.
- (3) 5W--Jumpmaster (personnel only).
- (4) 6M--Mobilization and Demobilization Operations.
- (5) 6P--Master Fitness Trainer.
- (6) 6T--Military Auditor (Reserve Component personnel only).
- (7) 7Q--Training Development.

f. *Qualifications.* Marine Engineering Officer

(1) *WO1/CW2 must--*

- (a) Complete the Warrant Officer Basic Course.
- (b) Be certified and licensed at the 881A skill level, per AR 56-9.
- (c) Have a physical profile of not less than 222221, per AR 40-501.
- (d) Have a distance visual acuity, which corrects to at least 20/20 in one eye, and 20/40 in the other eye.
- (e) Have normal color vision based on no more than four errors in reading the pseudo isochromatic plates test.
- (f) Be a U.S. citizen. Qualify for a security clearance of SECRET.
- (g) After four years of Marine Engineering Officer service, complete the Marine Engineering Officer A2 Course for SQI 2 certification.
- (h) Be certified at the 881A2 skill level, per AR 56-9.
- (i) A minimum OPAT score of Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles.

(2) *CW3 must--*

- (a) Meet qualifications described in paragraph f(1).
- (b) Complete the Marine Engineering Officer Warrant Officer Advanced Course.

(3) *CW4 must--*

- (a) Meet qualifications described in paragraph f(2).
- (b) Complete the Warrant Officer Staff Course (WOSC).

(4) *CW5 must--*

- (a) Meet qualifications described in paragraph f(3).
- (b) Complete the Warrant Officer Senior Staff Course (WOSSC).

g. *Duties.*

(1) *WO1/CW2--*

- (a) Directs the operation, maintenance, repair, and overhaul of engineering machinery and equipment installed aboard Army watercraft.
- (b) Supervises and performs installation and repair of marine power plant, propulsion systems, heating and ventilation systems, and other mechanical plumbing and electrical equipment in ships and marine facilities.

(c) Inspects ship's machinery to determine compliance with maintenance standards and/or to determine extent and nature of repairs required.

(d) Maintains maintenance logbooks and prepares maintenance reports and work orders.

(e) Implements the Army Maintenance Management System (TAMMS) as it applies to Marine material.

(2) *CW3--*

(a) Performs duties described in paragraph g(1).

(b) Is responsible for the safe, efficient operation and maintenance of all engineering systems aboard unlimited ocean transiting vessels.

(c) Initiates and coordinates all Marine engineering and maintenance functions associated with port operations at battalion level.

(d) Conducts technical inspections and Marine condition surveys.

(e) Provides technical guidance and direction in regard to Marine-related issues at battalion level staff.

(3) *CW4--*

(a) Performs duties described in paragraph g(2).

(b) Coordinates all Marine engineering and maintenance functions associated with port operations above battalion level.

(c) Manages maintenance and repair activities.

(4) *CW5--*

(a) Performs duties described in paragraph g(3).

(b) Performs as technical or Functional Systems Integrator at senior staff level.

h. Physical demands category, grading and position titles.

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) *Table 8-881A-1.* Physical requirements.

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-881A-2.* Standards of grade TOE/MTOE.

(b) *Table 8-881A-3.* Standards of grade TDA.

8-882A. Military Occupational Specialty 882A—Mobility Officer

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* AR 56-9 and DA Cir 601 series.
- c. *MOS 882A.* MOS 882A is an accession MOS. The enlisted feeder MOS is 88N.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASI's associated with all MOS)).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Warrant Officer Basic Course.
 - (b) Have a physical profile of not less than 222221, per AR 40-501.
 - (c) Have a distance visual acuity, which corrects to at least 20/20 in one eye, and 20/40 in the other eye.
 - (d) Have normal color vision based on no more than four errors in reading the pseudo isochromatic plates test.
 - (e) A minimum OPAT score of Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles.
 - (f) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f (1).
 - (b) Complete the Transportation Warrant Officer Advanced Course.
 - (c) Qualify for a security eligibility of TOP SECRET.
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f (2).
 - (b) Complete the Warrant Officer Staff Course (WOSC).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f (3).
 - (b) Complete the Warrant Officer Senior Staff Course (WOSSC).
- g. *Duties.*
 - (1) *W01/02—*
 - (a) Directs and coordinates the implementation of Global Transportation Network (GTN), Department of the Army Movement Management System-Redesign (DASMMS-R), Automated Command and Control Information System (ACCIS), ACCIS-Air-Load Module (ALM), Automated Information Management System (AIMS-II), Automated Air Load Planning System (AALPS), Air Movement Flow Table (AMFT), Computer Aided Loading and Manifesting System (CALM), Movement Tracking System (MTS), Computerized Movement Planning and Status System (COMPASS), LOGMAR/BARCODE scanners, Combat Service Support System (CSSCS), Worldwide Port System (WPS), Frequency Tag System, Mobile Subscriber equipment (MSE) and Tactical Terminal Adapters (TTA).
 - (b) Plans, assesses, supervises and reports convoy and cargo handling operations at company, battalion, brigade or division level.
 - (c) Plans movement of personnel, unit equipment and port call.
 - (d) Facilitates international movement by rail, highway, air and water to, within and from the theater assigned.
 - (e) Coordinates transportation plans.
 - (f) Prepares, supervises and coordinates cargo handling, ensuring its compliance with U.S. Army, contracted and host nation regulatory requirement.
 - (g) Seaport operations, marshaling equipment, inspection standards for sealift, theater opening procedures.

(h) Schedules movements within a theater of operations.

(i) Plans intra and inter theater movement by any mode of transportation.

(2) CW3—

(a) Performs duties described in paragraph g (1).

(b) Directs and coordinates the implementation of the Joint Operations Planning and Executing System (JOPES), Movement Planning Module (MPM), Improved Computerized Deployment System (ICODES) and Automated System for Processing Unit Requirements (ASPUR).

(c) Identifies the capabilities and limitations of the host nation transportation infrastructure.

(d) Recommends location of checkpoints along main and alternate supply routes.

(e) Supports development of OPLAN/OPS orders.

(f) Assesses unit transportation capabilities to support proposed operations.

(g) Assesses and incorporates non-programmed movements into the movement plan.

(3) CW4—

(a) Performs duties described in paragraph g (2).

(b) Directs and coordinates the implementation of the Army Mobilization and Operations Planning Execution System (AMOPES).

(c) Reviews ocean cargo manifests and manifest recapitulation.

(4) CW5—

(a) Performs duties described in paragraph g (3).

(b) Performs as technical advisor to higher echelons of command and allied armies on transportation matters.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) *Table 8-882-1.* Physical requirements.

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-882A-2.* Standards of grade TOE/MTOE.

(b) *Table 8-882A-3.* Standards of grade TDA.

8-890A. Military Occupational Specialty 890A--Ammunition Warrant Officer (Eff 20211001)

- a. *Licensing/certification requirement.* Personnel Reliability Program, AR 50-6 (if required by the position).
- b. *Prerequisites.* AR 135-100 and DA PAM 601-6.
- c. *MOS 890A.* MOS 890A is an accession MOS. The enlisted feeder MOSs are 89A, 89B, and 89D.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.*
 - (1) Refer to DA PAM 611-21 table 6-6 (listing of universal ASIs associated with all Warrant Officer MOSs).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Ammunition Warrant Officer Basic Course (WOBC).
 - (b) Have correctable vision, normal color discrimination, normal hearing, and full use of upper and lower extremities per AR 40-501.
 - (c) Meet Personnel Reliability Program (PRP) requirements per AR 50-6 when assigned to units that have required positions.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Ordnance Warrant Officer Advanced Course (WOAC).
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Warrant Officer Senior Service Education (WOSSE).
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Directs and coordinates the implementation of the following activities: Receipt, storage, issue, surveillance test, maintenance, modification, destruction, and demilitarization of conventional ammunition, missile explosive components, and other explosive items at company, battalion, and brigade level.
 - (b) Investigates and reports conventional ammunition accidents, failures, or malfunctions.
 - (c) Supervises and manages Standard Army Ammunition Systems ~~Modernized~~ (SAAS ~~MOD~~) at unit level and its associated ADP equipment.
 - (d) Prepares and/or reviews ammunition storage waivers.
 - (e) Prepares, reviews, and/or implements firefighting procedures for conventional ammunition, missiles and other explosive items.
 - (f) Plans, reviews, and/or implements emergency destruction of ammunition, missiles, and other explosive items.
 - (g) Plans, reviews, and/or implements policies and procedures for surveillance of chemical and biological waste materiel.
 - (h) Performs the duties of accountable officer when designated per AR 735-5.
 - (i) Advises commanders on the technical aspects of ammunition, missile, and other explosive items receipt, storage, maintenance and supply.
 - (j) Plans for and schedules work requirements, observes work practices, detects and corrects unsafe and/or improper procedures and techniques.
 - (k) Manages, examines, interprets, disseminates, and verifies requirements for technical publications in the unit.

- (l) Directs ammunition receipt, storage, maintenance and supply operations in a tactical environment.
- (m) Interprets technical data and instructs subordinates in the technical aspects of ammunition, missile, and other explosive items receipt, storage, maintenance and supply.
- (n) Ensures ammunition quality assurance/quality control (QA/QC) procedures are followed.

(2) CW3--

- (a) Performs duties described in paragraph g (1).
- (b) Conducts ammunition supply studies.
- (c) Develops, implements, and monitors programs of instruction that enhance training of other warrant officer and enlisted MOSs.
- (d) Supervises and manages SAAS-~~MOD~~ at the Sustainment Level, along with associated ADP equipment.
- (e) Analyzes and provides reports on complex ammunition malfunctions.
- (f) Advises the brigade staff and allied armies on Class V supply, including forecasting, requisitioning, issue, transportation, security, storage, safety, accountability, maintenance, destruction, demilitarization, and turn-in of ammunition.

(3) CW4--

- (a) Performs duties described in paragraph g (2).
- (b) Supervises and manages SAAS-~~MOD~~ at division and EAD level, along with associated ADP equipment.
- (c) Advises Army staff and allied armies for Class V supply.
- (d) Develops concepts, conducts studies, designs organizations, and prepares materiel requirements; tests and evaluates systems employment and organizations; and is proficient in the Total Life Cycle Systems Management (TLCSM) model.
- (e) Provides technical and tactical assistance at any echelon of command or support activity for the U.S. Army, or liaison activities with allied armies.
- (f) Presents written or oral briefings to line, staff, and professional personnel on ammunition supply, maintenance and related subject matters.
- (g) Administers the MOS Life Cycle Management and oversees personnel proponent functions affecting CMF 89 --Ordnance.

(4) CW5--

- (a) Performs duties described in paragraph g (3).
- (b) Acts as the technical advisor to higher echelons of command and to allied armies.
- (c) Provides technical advisory services on contracting and production matters to commanders.
- (d) Provides coordination between military and industry during development, testing and fielding of new munitions and missile explosive components.
- (e) Manages the development of training packages to ensure Army personnel are prepared to receive, store, maintain and supply new munitions and missile systems prior to fielding.
- (f) Serves as Army Theater subject matter expert (SME) and advisor for all aspects of munitions management, to include the development of command policies and procedures for munitions management, SAAS-~~MOD~~ operations, and explosive safety.
- (g) Performs other officer level duties as required consistent with senior staff officer responsibilities.

h. *Physical demands category, grading and position titles.*

- (1) Physical Demands Category (PDC) – Moderate (Gold).
- (2) A minimum OPAT score of (Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles) is required in Physical Demand Category "Moderate" (Gold).
- (3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (a) *Table 8-890A-2. Standards of grade TOE/MTOE.*
 - (b) *Table 8-890A-3. Standards of grade TDA.*

8-913A. Military Occupational Specialty 913A-- Armament Systems Maintenance Warrant Officer (Effective 202010)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* AR 135-100, DA Pam 601-6, and DA Pam 611-21.
- c. *MOS 913A.* MOS 913A is an accession MOS. The enlisted feeder MOSs are: 91A, 91F, 91M, 91P and 91X or 91Z with feeder MOS experience.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASIs associated with all warrant officer MOS)).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Warrant Officer Armament Systems Maintenance Basic Course.
 - (b) Have correctable vision, normal color discrimination, normal hearing, and full use of upper and lower extremities per AR 40-501.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Warrant Officer Armament Systems Maintenance Advanced Course.
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE).
 - (4) *CW5* see MOS 915E.
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Manages activities and personnel engaged in field level maintenance and repair of small arms, field artillery and armament systems.
 - (b) Directs procedures for the identification and troubleshooting of malfunctions in electrical, hydraulic, fire control, and instrument items.
 - (c) Establishes evacuation and replacement procedures of such items that are unserviceable and beyond the repair capabilities of forward support companies.
 - (d) Manages quality assurance and production control programs to ensure established work standards are met and repairs are made on a timely basis.
 - (e) Administers The Army Maintenance Management System (TAMMS) and other maintenance reporting and management systems
 - (f) Administers regulations and procedures pertaining to physical security, accountability, and shipment of weapons.
 - (g) Directs repair teams in support of field units and activities.
 - (h) Establishes and directs a shop safety program per applicable regulations.
 - (i) Establishes a technical library and examines, interprets, and disseminates technical material, including orders and bulletins.
 - (2) *CW3--*
 - (a) Performs duties described in paragraph g(1).
 - (b) Manages maintenance activities and personnel at field level.
 - (c) Directs the repairs of complex malfunctions occurring in tank turret electrical, hydraulic, fire control and instrument systems.
 - (3) *CW4--*
 - (a) Performs duties described in paragraph g(2).
 - (b) Serves as the senior armament systems maintenance technical advisor in echelons above brigade levels of command.
 - (c) Assists echelons above brigade staff in the planning, coordination, and execution of maintenance support.

(d) Provides technical expertise in maintenance doctrine on the battlefield for brigade and subordinate element level commanders and staff to efficiently employ armament systems maintenance personnel and equipment in support of the commanders' mission.

(e) Manages materiel readiness reporting for echelons above brigade organizations.

(f) Performs materiel readiness management duties at sustainment command levels.

(g) Performs research, development, test and evaluation duties.

(h) Assists in coordination and evaluates maintenance performed by contract support.

(i) Serves as Ordnance technical subject matter expert in training, capability, and materiel development positions.

(j) Advises commanders on the progression and utilization of subordinate Ordnance warrant officers.

(4) CW5--see MOS 915E.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold). Must achieve a minimum OPAT score of Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles.

(2) *Table 8-913A-1.* Physical requirements.

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-913A-2.* Standards of grade TOE/MTOE.

(b) *Table 8-913A-3.* Standards of grade TDA.

8-914A. Military Occupational Specialty 914A--Allied Trades Warrant Officer. (Eff 202010)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* AR 135-100, DA Pam 601-6, and DA Pam 611-21.
- c. *MOS 914A.* MOS 914A is an accession MOS. The enlisted feeder MOSs are 91E or 91X/91Z with 91E experience.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASIs associated with all warrant officer MOS)).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Allied Trades Warrant Officer Basic Course.
 - (b) Have correctable vision, normal color discrimination, normal hearing, and full use of upper and lower extremities per AR 40-501.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Allied Trades Warrant Officer Advanced Course.
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE).
 - (4) *CW5 must--see MOS 915E.*
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Directs the setup, operation, and maintenance of machine tools, computer numerical control (CNC), and welding equipment used to fabricate or repair parts, mechanisms, tools, and machinery.
 - (b) Manages automotive body, frame, and hull repair, painting, glass, radiator, canvas, and woodworking shop operations.
 - (c) Supervises and conducts recovery operations and maintenance of tracked and wheeled recovery equipment.
 - (d) Employs principles of mechanics, metals identification procedures, shop mathematics, and shop layout.
 - (e) Establishes and directs the upkeep of shop stock, materials, and maintenance-related items required per applicable regulations.
 - (f) Manages quality assurance and production control programs to ensure established work standards are met and repairs are made on a timely basis.
 - (g) Establishes training programs to ensure subordinates are qualified in current maintenance techniques and equipment operation.
 - (h) Coordinates shop activities with other repair shops to ensure equipment is quickly repaired and returned to user.
 - (i) Establishes and conducts a shop safety program per applicable regulations.
 - (j) Administers The Army Maintenance Management System (TAMMS).
 - (2) *CW3--*
 - (a) Performs duties described in paragraph g(1).
 - (b) Manages personnel and activities in field level maintenance within Echelons above Brigade organizations.
 - (3) *CW4--*
 - (a) Performs duties described in paragraph g(2).
 - (b) Serves as the senior allied trades technical advisor in echelons above brigade levels of command.
 - (c) Assists echelons above brigade staff in the planning, coordination, and execution of maintenance support.

(d) Provides technical expertise in allied trades doctrine on the battlefield for brigade and subordinate element level commanders and staff to efficiently employ allied trades personnel and equipment in support of the commanders' mission.

(e) Manages materiel readiness reporting for echelons above brigade organizations.

(f) Performs materiel readiness management duties at sustainment command levels.

(g) Performs research, development, test and evaluation duties.

(h) Assists in coordination and evaluates allied trades tasks performed by contract support.

(i) Serves as Ordnance technical subject matter expert in training, capability, and materiel development positions.

(j) Advises commanders on the progression and utilization of subordinate Ordnance warrant officers.

(4) CW5—see MOS 915E.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) A minimum OPAT score of (Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles) in Physical Demand Category in "Moderate" (Gold).

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-914A-2. Standards of grade TOE/MTOE.*

(b) *Table 8-914A-3. Standards of grade TDA.*

8-915A. Military Occupational Specialty 915A--Automotive Maintenance Warrant Officer (Effective 202510)

- a. *Licensing/certification requirement.* None
- b. *Prerequisites.* AR 135-100, DA Pam 601-6, and DA Pam 611-21.
- c. *MOS 915A.* MOS 915A is an accession MOS. The enlisted feeder MOSSs are 91A, 91B, 91C, 91D, 91H, 91J, 91L, 91M, 91P, 91S, 91X, and 91Z.
- d. *Associated SQI.*
 - (1) 0-No special qualifications.
 - (2) 8-Instructor.
 - (3) P-Parachutist.
 - (4) T-Transition
 - (5) Z-Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASIs associated with all warrant officer MOS)).
- f. *Qualifications.*
 - (1) *WO1/CW2 must-*
 - (a) Complete the Automotive Maintenance Warrant Officer Basic Course.
 - (b) Have correctable vision, normal color discrimination, normal hearing, and full use of upper and lower extremities per AR 40-501.
 - (2) *CW3 must-*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Automotive Maintenance Warrant Officer Advanced Course.
 - (3) *CW4 must-*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE).
 - (4) *CW5 must-see MOS 915E.*
- g. *Duties.*
 - (1) *WO1/CW2-*
 - (a) Plans, organizes, and allocates resources and facilities to execute maintenance and repair of light and heavy military and commercial wheeled vehicles; wheeled construction equipment; mobile electric power generation; armament systems; small arms; fire control; ground support equipment and power-driven chemical equipment.
 - (b) Evaluates and inspects maintenance operations and develops and implements corrective action plans where necessary to comply with regulatory and statutory requirements applicable to industrial maintenance operations in fixed facilities or field environments.
 - (c) Identifies technical training deficiencies within the military or civilian work force and develops comprehensive corrective action plans to provide necessary training. Personally trains maintenance personnel to accurately diagnose/troubleshoot mechanical, electrical, pneumatic and hydraulic malfunctions accurately using the latest test equipment, technical publications and procedures available.
 - (d) Provides management oversight and technical guidance on the establishment of unit Shop Stock, Bench Stock, and consumable shop supplies per applicable supply calculations. Coordinates for, or provides technical training for Army Logistics Information Systems (LIS) system operators.
 - (e) Develops and updates the commander's Standing Operating Procedures (SOP) for the conduct of maintenance operations to include: safety, fire prevention and environmental protection and physical security within the maintenance facility. Assist the commander in preparation for all external inspections and visits by installation/ACOM safety, fire prevention, and environmental protection agencies.
 - (f) Oversees the commander's calibration program and ensures calibration operations are treated as maintenance operations and are covered in the unit's maintenance SOP.
 - (g) Oversees the Army Oil Analysis Program to ensure it is in compliance with regulatory requirements.
 - (h) Trains and directs recovery vehicle operators in safe and correct recovery operations.

- (i) Utilizes LIS to provide maintenance and readiness information to the commander and supervisors. Submits Software Engineering Change Proposals to the appropriate agencies when automated maintenance management systems do not function as designed.
- (j) Plans, schedules, and publishes scheduled service plans for all assigned equipment per the applicable technical manuals/lubrication orders.
- (k) Coordinates with the installation/ACOM or AMC, on application of modification work orders on unit equipment.
- (l) Conducts technical inspections of unit equipment to determine maintenance status. This includes CBRN, weapons, communications, ground support equipment, and required sets, kits, outfits, and tools (SKOT).
- (m) Manages property accountability for the commander for all equipment used in the performance of maintenance.
- (n) Ensures that maintenance personnel are using current technical publications. Inspects and verifies that pinpoint distribution accounts are current for all maintenance sections in the unit.
- (o) Establishes the commander's quality assurance program for maintenance and repairs. Oversees all quality control inspections and inspectors to validate their capability to identify improper repairs and scheduled services.
- (p) Acts as the commander's Command Inspection Program (CIP) maintenance team chief. Personally ensures that the CIP is fair and inspecting to the published standard in all areas associated with equipment maintenance.
- (q) Coordinates with other maintenance activities and external agencies to resolve disagreements and maintenance quality control problems.
- (r) Acts as the unit point of contact for Army Materiel Status System (AMSS) reporting and issues that arise between the unit, the support operations/distribution management center and Army level.

(2) CW3

- (a) Performs duties described in paragraph g(1).
- (b) Serves as the senior technical advisor to battalion commanders and the staffs of combat arms maneuver battalions, forward support companies, and task organized combat arms maneuver formations.
- (c) Assists a combat arms maneuver battalion or forward support company staff in the planning, coordination, and execution of maintenance support during tactical training and combat operations.
- (d) Provides technical expertise in maintenance doctrine on the battlefield necessary for a combat maneuver battalion or squadron staff to efficiently employ maintenance personnel and equipment in support of the commander's mission.
- (e) Coordinates maintenance support necessary for sustainment of readiness in a combat arms maneuver battalion or squadron.
- (f) Provides input to supporting maintenance unit commanders and their staffs on tactical support requirements peculiar to the combat maneuver battalion or squadron.
- (g) Directs and manages field level automotive, and related support equipment repair teams, sections, and platoons in forward support companies, support maintenance companies, and other combat service support units.
- (h) Controls work flow in field maintenance shops under his/her control.
- (i) Trains maintainers in correct diagnostics, repair, and quality control procedures on equipment repaired in shops under his/her control.
- (j) Establishes internal controls for requesting, maintaining, and properly disposing of supplies, tools and parts, and technical reference material within shops under his/her control.
- (k) Provides input to the commander for development of internal and external maintenance Standing Operating Procedures (SOP).
- (l) Provides technical advice to the commander on the efficient employment of field repair capability in field training and combat environments.
- (m) Employs automated maintenance management systems to improve productivity in shops under his/her control.
- (n) Provides technical advice to supported unit commanders and staff on technical maintenance management and maintenance doctrine.

(o) Acts as installation, Army Command, or Army maintenance inspection or training team chief.

(p) Diagnoses complex malfunctions on automotive and support equipment when the malfunctions are beyond the capability of subordinates.

(q) Provides Ordnance related technical and doctrinal expertise to brigade and group level commanders and staffs.

(3) CW4.

(a) Performs duties described in paragraph g(1) and g(2).

(b) Serves as the senior ground maintenance technical advisor in brigade and group levels of command.

(c) Assists brigade and group staff in the planning, coordination, and execution of maintenance support.

(d) Provides technical expertise in maintenance doctrine on the battlefield for brigade and subordinate element level commanders and staff to efficiently employ maintenance personnel and equipment in support of the commanders' mission.

(e) Manages materiel readiness reporting for brigade and echelons above brigade organizations.

(f) Performs materiel readiness management duties at sustainment brigade and sustainment command levels.

(g) Performs research, development, test and evaluation duties.

(h) Assists in coordination and evaluates maintenance performed by contract support.

(i) Serves as Ordnance technical subject matter expert in training, capability, and materiel development positions.

(j) Advises commanders on the progression and utilization of subordinate Ordnance warrant officers.

(4) CW5 see MOS 915E.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) A minimum OPAT score of (Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles) is required in Physical Demand Category "Moderate" (Gold).

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-915A-2. Standards of grade TOE/MTOE.*

(b) *Table 8-915A-3. Standards of grade TDA.*

8-915E. Military Occupational Specialty 915E-- Senior Ordnance Logistics Warrant Officer (CW5 only) (Effective 202510)

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* Demonstrated proficiency in MOS 913A, 914A, 915A, 915S, 915T, or 919A.
- c. *MOS 915E.* MOS 915E is not an accession MOS. The feeder MOSs for 915E CW5 are 913A, 914A, 915A, 915S, and 915T.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASIs associated with all warrant officer MOS)).
- f. *Qualifications.*
 - (1) *WO1/CW2 must* -- see feeder MOS qualifications.
 - (2) *CW3 must*—see feeder MOS qualifications.
 - (3) *CW4 must*—see feeder MOS qualifications.
 - (4) *CW5 must*--
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Complete the Warrant Officer Senior Service Education (WOSSE).
- g. *Duties.*
 - (1) WO1/CW2/CW3 and CW4--see feeder MOS qualifications.
 - (3) *CW5*--
 - (a) Performs duties described in paragraph g(1).
 - (b) Administers the MOS Life Cycle Management and oversees personnel proponent functions affecting CMF 94, CMF 89 and CMF 91.
 - (c) Serves as the senior technical advisor at the highest echelons of command such as HQDA, ACOMs, ASCCs, DRUs, corps, and divisions, and to allied armies in all matters pertaining to maintenance and logistics.
 - (d) Provides technical advisory services on contracting and production matters to commanders.
 - (e) Manages the development of training packages to ensure Army personnel are prepared to maintain new equipment systems prior to fielding.
 - (f) Performs other officer level duties as required consistent with senior staff officer responsibilities.
 - (g) Serves as assignment officer at Human Resources Command.
- h. *Physical demands category, grading and position titles.*
 - (1) Physical Demands Category (PDC) – Moderate (Gold).
 - (2) A minimum OPAT score of (Standing Long Jump (LJ) - 120 cm, seated Power Throw (PT) - 350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 36 shuttles) is required in Physical Demand Category “Moderate” (Gold).
 - (3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1 and CW2; W3 equals CW3; W4 equals CW4; W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (a) *Table 8-915E-2. Standards of grade TOE/MTOE.*
 - (b) *Table 8-915E-3. Standards of TDA.*

8-915S. Military Occupational Specialty 915S--Stryker Maintenance Warrant Officer (Effective 202510)

- a. *Licensing/certification requirement.* None
- b. *Prerequisites.* AR 135-100, DA Pam 601-6, and DA Pam 611-21.
- c. *MOS 915S.* MOS 915S is an accession MOS. The enlisted feeder MOSSs are 91B, 91S, 91X, and 91Z.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASIs associated with all warrant officer MOS)).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Stryker Maintenance Warrant Officer Basic Course.
 - (b) Have correctable vision, normal color discrimination, normal hearing, and full use of upper and lower extremities per AR 40-501.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Stryker Maintenance Warrant Officer Advanced Course.
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE)
 - (4) *CW5 must--see MOS 915E.*
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Plans, organizes, and allocates resources and facilities to execute maintenance and repair of light and heavy military and commercial wheeled vehicles; Stryker combat vehicles; wheeled construction equipment; mobile electric power generation; armament systems; small arms; fire control; ground support equipment and power driven chemical equipment.
 - (b) Evaluates and inspects maintenance operations and develops and implements corrective action plans where necessary to comply with regulatory and statutory requirements applicable to industrial maintenance operations in fixed facilities or field environments.
 - (c) Identifies technical training deficiencies within the military or civilian work force and develops comprehensive corrective action plans to provide necessary training. Personally trains maintenance personnel to accurately diagnose/troubleshoot mechanical, electrical, pneumatic and hydraulic malfunctions accurately using the latest test equipment, technical publications and procedures available.
 - (d) Provides management oversight and technical guidance on the establishment of unit Shop Stock, Bench Stock, and consumable shop supplies per applicable supply calculations. Coordinates for, or provides technical training for Army Logistics Information Systems (LIS) system operators.
 - (e) Develops and updates the commander's Standing Operating Procedures (SOP) for the conduct of maintenance operations to include: safety, fire prevention and environmental protection and physical security within the maintenance facility. Assist the commander in preparation for all external inspections and visits by installation/ACOM safety, fire prevention, and environmental protection agencies.
 - (f) Oversees the commander's calibration program and ensures calibration operations are treated as maintenance operations and are covered in the unit's maintenance SOP.
 - (g) Oversees the Army Oil Analysis Program to ensure it is in compliance with regulatory requirements.
 - (h) Trains and directs recovery vehicle operators in safe and correct recovery operations.

- (i) Utilizes LIS to provide maintenance and readiness information to the commander and supervisors. Submits Software Engineering Change Proposals to the appropriate agencies when automated maintenance management systems do not function as designed.
- (j) Plans, schedules, and publishes scheduled service plans for all assigned equipment per the applicable technical manuals/lubrication orders.
- (k) Coordinates with the installation/ACOM or AMC, on application of modification work orders on unit equipment.
- (l) Conducts technical inspections of unit equipment to determine maintenance status. This includes CBRN, weapons, communications, ground support equipment, and required sets, kits, outfits, and tools (SKOT).
- (m) Manages property accountability for the commander for all equipment used in the performance of maintenance.
- (n) Ensures that maintenance personnel are using current technical publications. Inspects and verifies that pinpoint distribution accounts are current for all maintenance sections in the unit.
- (o) Establishes the commander's quality assurance program for maintenance and repairs. Oversees all quality control inspections and inspectors to validate their capability to identify improper repairs and scheduled services.
- (p) Acts as the commander's Command Inspection Program (CIP) maintenance team chief. Personally ensures that the CIP is fair and inspecting to the published standard in all areas associated with equipment maintenance.
- (q) Coordinates with other maintenance activities and external agencies to resolve disagreements and maintenance quality control problems.
- (r) Acts as the unit point of contact for Army Materiel Status System (AMSS) reporting and issues that arise between the unit, the support operations/distribution management center and Army level.

(2) CW3

- (a) Performs duties described in paragraph g(1).
- (b) Serves as the senior technical advisor to battalion commanders and the staffs of combat arms maneuver battalions, forward support companies, and task organized combat arms maneuver formations.
- (c) Assists a combat arms maneuver battalion or forward support company staff in the planning, coordination, and execution of maintenance support during tactical training and combat operations.
- (d) Provides technical expertise in maintenance doctrine on the battlefield necessary for a combat maneuver battalion or squadron staff to efficiently employ maintenance personnel and equipment in support of the commander's mission.
- (e) Coordinates maintenance support necessary for sustainment of readiness in a combat arms maneuver battalion or squadron.
- (f) Provides input to supporting maintenance unit commanders and their staffs on tactical support requirements peculiar to the combat maneuver battalion or squadron.
- (g) Directs and manages field level Stryker, automotive, and related support equipment repair teams, sections, and platoons in forward support companies, support maintenance companies, and other combat service support units.
- (h) Controls work flow in field maintenance shops under his/her control.
- (i) Trains maintainers in correct diagnostics, repair, and quality control procedures on equipment repaired in shops under his/her control.
- (j) Establishes internal controls for requesting, maintaining, and properly disposing of supplies, tools and parts, and technical reference material within shops under his/her control.
- (k) Provides input to the commander for development of internal and external maintenance Standing Operating Procedures (SOP).
- (l) Provides technical advice to the commander on the efficient employment of field repair capability in field training and combat environments.
- (m) Employs automated maintenance management systems to improve productivity in shops under his/her control.
- (n) Provides technical advice to supported unit commanders and staff on technical maintenance management and maintenance doctrine.

(o) Acts as installation, Army Command, or Army maintenance inspection or training team chief.

(p) Diagnoses complex malfunctions on Stryker, automotive and support equipment when the malfunctions are beyond the capability of subordinates.

(q) Provides Ordnance related technical and doctrinal expertise to brigade and group level commanders and staffs.

(3) CW4

(a) Performs duties described in paragraph g(1) and g(2).

(b) Serves as the senior ground maintenance technical advisor in brigade and group levels of command.

(c) Assists brigade and group staff in the planning, coordination, and execution of maintenance support.

(d) Provides technical expertise in maintenance doctrine on the battlefield for brigade and subordinate element level commanders and staff to efficiently employ maintenance personnel and equipment in support of the commanders' mission.

(e) Manages materiel readiness reporting for brigade and echelons above brigade organizations.

(f) Performs materiel readiness management duties at sustainment command levels.

(g) Performs research, development, test and evaluation duties.

(h) Assists in coordination and evaluates maintenance performed by contract support.

(i) Serves as Ordnance technical subject matter expert in training, capability, and materiel development positions.

(j) Advises commanders on the progression and utilization of subordinate Ordnance warrant officers.

(4) CW5 see MOS 915E.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) A minimum OPAT score of (Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles) is required in Physical Demand Category "Moderate" (Gold).

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-915S-2. Standards of grade TOE/MTOE.*

(b) *Table 8-915S-3. Standards of grade TDA.*

8-915T. Military Occupational Specialty 915T--Track Maintenance Warrant Officer (Effective 202510)

- a. *Licensing/certification requirement.* None
- b. *Prerequisites.* AR 135-100, DA Pam 601-6, and DA Pam 611-21.
- c. *MOS 915T.* MOS 915T is an accession MOS. The enlisted feeder MOSSs are 91A, 91H, 91M, 91P, 91L, 91X, and 91Z.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASIs associated with all warrant officer MOS)).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Track Maintenance Warrant Officer Basic Course.
 - (b) Have correctable vision, normal color discrimination, normal hearing, and full use of upper and lower extremities per AR 40-501.
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Complete the Track Maintenance Warrant Officer Advanced Course.
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Complete the Warrant Officer Intermediate Level Education (WOILE)
 - (4) *CW5 must--see MOS 915E.*
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Plans, organizes, and allocates resources and facilities to execute maintenance and repair of light and heavy military and commercial wheeled vehicles; track combat vehicles; wheeled and track construction equipment; mobile electric power generation; armament systems; small arms; fire control; ground support equipment and power driven chemical equipment.
 - (b) Evaluates and inspects maintenance operations and develops and implements corrective action plans where necessary to comply with regulatory and statutory requirements applicable to industrial maintenance operations in fixed facilities or field environments.
 - (c) Identifies technical training deficiencies within the military or civilian work force and develops comprehensive corrective action plans to provide necessary training. Personally trains maintenance personnel to accurately diagnose/troubleshoot mechanical, electrical, pneumatic and hydraulic malfunctions accurately using the latest test equipment, technical publications and procedures available.
 - (d) Provides management oversight and technical guidance on the establishment of unit Shop Stock, Bench Stock, and consumable shop supplies per applicable supply calculations. Coordinates for, or provides technical training for Army Logistics Information Systems (LIS) system operators.
 - (e) Develops and updates the commander's Standing Operating Procedures (SOP) for the conduct of maintenance operations to include: safety, fire prevention and environmental protection and physical security within the maintenance facility. Assist the commander in preparation for all external inspections and visits by installation/ACOM safety, fire prevention, and environmental protection agencies.
 - (f) Oversees the commander's calibration program and ensures calibration operations are treated as maintenance operations and are covered in the unit's maintenance SOP.
 - (g) Oversees the Army Oil Analysis Program to ensure it is in compliance with regulatory requirements.
 - (h) Trains and directs recovery vehicle operators in safe and correct recovery operations.

- (i) Utilizes LIS to provide maintenance and readiness information to the commander and supervisors. Submits Software Engineering Change Proposals to the appropriate agencies when automated maintenance management systems do not function as designed.
- (j) Plans, schedules, and publishes scheduled service plans for all assigned equipment per the applicable technical manuals/lubrication orders.
- (k) Coordinates with the installation/ACOM or AMC, on application of modification work orders on unit equipment.
- (l) Conducts technical inspections of unit equipment to determine maintenance status. This includes CBRN, weapons, communications, ground support equipment, and required sets, kits, outfits, and tools (SKOT).
- (m) Manages property accountability for the commander for all equipment used in the performance of maintenance.
- (n) Ensures that maintenance personnel are using current technical publications. Inspects and verifies that pinpoint distribution accounts are current for all maintenance sections in the unit.
- (o) Establishes the commander's quality assurance program for maintenance and repairs. Oversees all quality control inspections and inspectors to validate their capability to identify improper repairs and scheduled services.
- (p) Acts as the commander's Command Inspection Program (CIP) maintenance team chief. Personally ensures that the CIP is fair and inspecting to the published standard in all areas associated with equipment maintenance.
- (q) Coordinates with other maintenance activities and external agencies to resolve disagreements and maintenance quality control problems.
- (r) Acts as the unit point of contact for Army Materiel Status System (AMSS) reporting and issues that arise between the unit, the support operations/distribution management center and Army level.

(2) CW3

- (a) Performs duties described in paragraph g(1).
- (b) Serves as the senior technical advisor to battalion commanders and the staffs of combat arms maneuver battalions, forward support companies, and task organized combat arms maneuver formations.
- (c) Assists a combat arms maneuver battalion or forward support company staff in the planning, coordination, and execution of maintenance support during tactical training and combat operations.
- (d) Provides technical expertise in maintenance doctrine on the battlefield necessary for a combat maneuver battalion or squadron staff to efficiently employ maintenance personnel and equipment in support of the commander's mission.
- (e) Coordinates maintenance support necessary for sustainment of readiness in a combat arms maneuver battalion or squadron.
- (f) Provides input to supporting maintenance unit commanders and their staffs on tactical support requirements peculiar to the combat maneuver battalion or squadron.
- (g) Directs and manages field level track, tank, automotive, and related support equipment repair teams, sections, and platoons in forward support companies, support maintenance companies, and other combat service support units.
- (h) Controls work flow in field maintenance shops under his/her control.
- (i) Trains maintainers in correct diagnostics, repair, and quality control procedures on equipment repaired in shops under his/her control.
- (j) Establishes internal controls for requesting, maintaining, and properly disposing of supplies, tools and parts, and technical reference material within shops under his/her control.
- (k) Provides input to the commander for development of internal and external maintenance Standing Operating Procedures (SOP).
- (l) Provides technical advice to the commander on the efficient employment of field repair capability in field training and combat environments.
- (m) Employs automated maintenance management systems to improve productivity in shops under his/her control.
- (n) Provides technical advice to supported unit commanders and staff on technical maintenance management and maintenance doctrine.

(o) Acts as installation, Army Command, or Army maintenance inspection or training team chief.

(p) Diagnoses complex malfunctions on Stryker, automotive and support equipment when the malfunctions are beyond the capability of subordinates.

(q) Provides Ordnance related technical and doctrinal expertise to brigade and group level commanders and staffs.

(3) CW4

(a) Performs duties described in paragraph g(1) and g(2).

(b) Serves as the senior ground maintenance technical advisor in brigade and group levels of command.

(c) Assists brigade and group staff in the planning, coordination, and execution of maintenance support.

(d) Provides technical expertise in maintenance doctrine on the battlefield for brigade and subordinate element level commanders and staff to efficiently employ maintenance personnel and equipment in support of the commanders' mission.

(e) Manages materiel readiness reporting for brigade and echelons above brigade organizations.

(f) Performs materiel readiness management duties at sustainment command levels.

(g) Performs research, development, test and evaluation duties.

(h) Assists in coordination and evaluates maintenance performed by contract support.

(i) Serves as Ordnance technical subject matter expert in training, capability, and materiel development positions.

(j) Advises commanders on the progression and utilization of subordinate Ordnance warrant officers.

(4) CW5 see MOS 915E.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) A minimum OPAT score of (Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles) is required in Physical Demand Category "Moderate" (Gold).

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-915T-2. Standards of grade TOE/MTOE.*

(b) *Table 8-915T-3. Standards of grade TDA.*

**8-919A. Military Occupational Specialty 919A--Engineer Equipment Maintenance Warrant Officer
(Effective 202510)**

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* AR 135-100, DA Pam 601-6, and DA Pam 611-21.
- c. *MOS 919A.* MOS 919A is an accession MOS. The enlisted feeder MOSSs are: 91B, 91C, 91D, 91H, 91J, 91L, 91X, and 91Z.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 (Listing of universal ASIs associated with all warrant officer MOS)).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Complete the Engineer Equipment Maintenance Warrant Officer Basic Course.
 - (b) Have correctable vision, normal color discrimination, normal hearing, and full use of upper and lower extremities per AR 40-501.
 - (c) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (2) *CW3 must—See MOS 915T.*
 - (3) *CW4 must—See MOS 915T.*
 - (4) *CW5 must—See MOS 915E.*
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Supervises personnel in maintenance of engineer and ground support equipment.
 - (b) Analyzes malfunctions and supervises minor repair and adjustment of engineer equipment utilized for power generation, earthmoving, shaping and compacting, lifting and loading, quarrying and rock crushing, asphalt concrete mixing and surfacing, water purification, refrigeration and air conditioning, water gap crossing, POL transfer and engineer electronic application.
 - (c) Supervises maintenance of non-engineer equipment assigned by equipment authorization documents.
 - (d) Inspects incoming equipment to determine repair requirements, assigns work to subordinates, and ensures quality of work performed by inspection of outgoing equipment.
 - (e) Establishes maintenance and repair schedules based on equipment schedules and availability of parts, tools, and personnel and unit mission.
 - (f) Establishes internal administrative procedures to procure, store, and issue publications, tools, parts, and POL.
 - (g) Manages maintenance float items to replace equipment not repairable within prescribed time limits.
 - (2) *CW3—See MOS 915T*
 - (3) *CW4—See MOS 915T.*
 - (4) *CW5—See MOS 915E.*
- h. *Physical demands category, grading and position titles.*
 - (1) Physical Demands Category (PDC) – Moderate (Gold).
 - (2) A minimum OPAT score of (Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles) is required in Physical Demand Category “Moderate” (Gold).
 - (3) Authorized position titles are provided in appendixes B and C. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (a) *Table 8-919A-2. Standards of grade TOE/MTOE.*
 - (b) *Table 8-919A-3. Standards of grade TDA.*

8-920. MOS 920A--Property Accounting Technician

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Cir 601 series.
- c. *MOS 920A.* MOS 920A is an accession MOS. The primary enlisted feeder MOS is 92Y; however, MOS 92A may serve as a feeder depending on individual experiences.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)). 3D – Level II Defense Acquisition Workforce Improvement Act (DAWIA) Industrial/Contract Property Management Certification (Effective 201810).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Successfully complete the Property Accounting Technician Warrant Officer Basic Course (WOBC).
 - (b) Have 20/20 correctable vision and normal color discrimination per AR 40-501.
 - (c) Have normal hearing.
 - (d) Be a U.S. citizen. Qualify for a security clearance of SECRET.
 - (e) A physical demands rating of Moderate (Gold).
 - (f) A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, Seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category in “Moderate” (Gold).
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Successfully complete the Property Accounting Technician Warrant Officer Advanced Course (WOAC).
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Successfully complete the Warrant Officer Staff Course (WOSC).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Serves as a technician or technical manager in a narrow technical functional area, generally at battalion or lower level organizations or as one of several property book team chiefs in the DISCOM, or where property book teams are established in support of the automated Standard Property Book System (SPBS). Additionally, will serve in a junior position in organizations where other senior Property Accounting Technician(s) are assigned.
 - (b) Supervises the technical aspects of unit property book records per AR 710-2.
 - (c) Performs in both manual and automated property book accounting environments with the related functions associated with accurate property accountability.
 - (d) Monitors and performs evaluations of subordinate supply operations per Command Supply Discipline Program (CSDP) and AR 710-2.
 - (e) Conducts financial inventory accounting as applied to the Army's budgeting system.
 - (f) Complies with appropriate regulations, forms and procedures pertaining to property books, hand receipts and other property accounting documents.
 - (2) *CW3--*
 - (a) Performs duties described in paragraph g(1).
 - (b) Serves as the senior Property Accounting Technician in mid-level management positions; generally at the brigade/group/regiment level; positions requiring a level of independence from supervision. Additionally, may serve as the Assistant Division Property Book Officer, or as the senior technician in the Reports Branch of DISCOM.

(c) Provides internal and external training and technical advice to junior Property Accounting Technicians.

(3) *CW4--*

(a) Performs duties described in paragraph *g(2)*.

(b) Instructs and provides technical advice to other countries in the development and management of their asset visibility programs.

(4) *CW5--*

(a) Performs duties described in paragraph *g(3)*.

(b) Serves as the most senior Property Accounting Technician in positions as technical advisor/analyses to commanders dealing in such complex areas as: force modernization, personnel management logistical support analysis, intergraded logistics support, project management development/analysis, logistics management and systems development.

h. Physical demands category, grading and position titles.

(a) Physical Demands Category (PDC) – Moderate.

(b) Authorized position titles are provided in appendixes B and C. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(1) *Table 8-920A-1*. Physical requirements.

(2) *Table 8-920A-2*. Standards of grade TOE/MTOE.

(3) *Table 8-920A-3*. Standards of grade TDA.

8-920B. Military Occupational Specialty 920B--Supply Systems Technician

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Cir 601 series.
- c. *MOS 920B.* MOS 920B is an accession MOS. The primary enlisted feeder MOS is 92A.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)). N8— Sustainment Systems Master Gunner (SSMG) (Effective 202504).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Successfully complete the Supply Systems Warrant Officer Basic Course (WOBC).
 - (b) Have 20/20 correctable vision and normal color discrimination per AR 40-501.
 - (c) Have normal hearing.
 - (d) Be a U.S. citizen. Qualify for a security clearance of SECRET.
 - (e) A physical demands rating of Moderate (Gold).
 - (f) A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, Seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category in “Moderate” (Gold).
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Successfully complete the Supply Systems Technician Warrant Officer Advanced Course (WOAC).
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Successfully complete the Warrant Officer Staff Course (WOSC).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Serves as technician or technical manager in a narrow technical functional area; generally at platoon, detachment, company or at the position in other organizations where senior Supply Systems Technician(s) are assigned.
 - (b) Generally this individual will serve alone in organizations which provide the following type supply support:
 - 1. Nondivisional: Mission Supply Support Activity (SSA) with less than 3000 Authorized Stockage Line (ASL) and less than 30 personnel assigned or Customer Supply Support activity (SSA) with less than 3000 Authorized Stockage Lines (ASL) and less than 30 personnel assigned.
 - 2. Divisional: All Forward Supply Support Activities. As a team member (Storage & Exchange section) in all Main Supply Support Activities.
 - (c) Serves as a team member in the following:
 - 1. Division, DMMC.
 - 2. Separate Brigade/Regiment/COSCOM/Group/Command.
 - 3. Corps MMC.
 - (d) Instructs, manages and supervises personnel within a Supply Support Activity (SSA) concerning supply systems policy and functional procedures.
 - (e) Manages the receipt, storage and issuance of supplies and equipment at the SSA level in accordance with established policies and regulations.
 - (f) Plans stockage level requirements for stockage and control based on accumulation and demand.

(g) Controls management of operational float stocks to ensure compliance with Army policy.

- (h) Inspects supported units to ensure stockage levels do not exceed prescribed levels.
- (i) Provides technical guidance to personnel of supported units/activities in order to assist, establish, and maintain adequate stockage levels for mission accomplishment.
- (j) Conducts periodic inventories of stockage supply items, initiates action for disposition of excesses and makes recommendations for changes to the authorized stockage list (ASL).
- (k) Develops standard operating procedures and performs administrative duties related to the supply activity.

(2) CW3--

- (a) Performs duties described in paragraph g(1).
- (b) Serves as the senior Supply Systems Technician in mid-level management positions; generally at the battalion (Separate Heavy Support and Main Support), and at the Brigade/Regiment level; positions requiring a level of independence from supervision. Additionally, will serve in senior level positions within the Division and COSCOM.
- (c) Generally this individual will serve in positions which require the following advanced level MOS skills in supply support:
 - Nondivisional: Mission Supply Support Activity (SSA) with 3000 or more Authorized Stockage Lines (ASL) and 30 or more personnel authorized or Customer Supply Support Activity (SSA) with 3000 or more Authorized Stockage Lines (ASL) and 30 or more customers.
- (d) Serves as a team leader or member at the following:
 1. Division, DMMC.
 2. Separate Brigade/Regiment/COSCOM/Group/Command.
 3. Corps MMC.
- (e) Instructs other countries in the development and management of their respective supply support systems.

(3) CW4--

- (a) Performs duties described in paragraph g(2).
- (b) As the senior Supply Systems Technician, serves in technical management and advisor positions requiring advanced level staff and technical skills and a high degree of independence from supervision. Will serve at selected Groups (Area Support or Corps Support), but will generally serve at Division, COSCOM, TAACOM or MACOM levels.
- (c) Performs in contracting management and budgeting, requiring advanced written and oral skills.
- (d) As the senior Supply Systems Technician, will generally serve as the supervisor of other MOS 920Bs who actually manage the supply accounts.
- (e) Instructs and provides technical advice to other countries in the development and systems management of their supply systems.
- (f) Serves as special project/action officer, technical analysis, technical advisor on the G-staffs, and as a systems designer/developer.

(4) CW5--

- (a) Performs duties described in paragraph g(3).
- (b) Serves as the most senior Supply Systems Technician in positions as technical advisor/analyses to major commanders in such complex areas as: force modernization, personnel management, logistical support analysis, integrated logistics support, project management development/analysis, logistics management and systems developments.
- (c) Serves in positions which require an unusual depth and breadth of technical knowledge for functional training and curriculum development.
- (d) Serves in selected QM branch MOS immaterial positions such as the career manager at PERSCOM, Chief of QM Warrant Officer Training, or as Chief Warrant Officer of the QM Corps. May be selected to serve in the CSS MOS immaterial position as CSS Warrant Officer Personnel Proponent at CASCOM. Additionally, may be selected to serve in Army Warrant Officer MOS immaterial positions at the DA level.

h. *Physical demands category, grading and position titles.*

- (1) Physical Demands Category (PDC) – Moderate.
- (2) *Table 8-920B-1. Physical requirements*

(3) Authorized position titles are provided in appendixes B and C. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (a) *Table 8-920B-2. Standards of grade TOE/MTOE.*
- (b) *Table 8-920B-3. Standards of grade.*

8-921. MOS 921A--Airdrop Systems Technician

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Cir 601 series.
- c. *MOS 921A.* MOS 921A is an accession MOS. The enlisted feeder MOS is 92R.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Successfully complete the Airdrop Systems Technician Warrant Officer Basic Course (WOBC).
 - (b) Have 20/20 correctable vision and normal color discrimination per AR 40-501.
 - (c) Have normal hearing.
 - (d) Be a U.S. citizen. Qualify for a security eligibility of SECRET.
 - (e) Be able to perform parachute duty.
 - (f) Be able to maintain certification under the provisions of AR 750-32.
 - (g) A physical demands rating of Moderate (Gold).
 - (h) A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, Seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category in "Moderate" (Gold).
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Successfully complete the Airdrop Systems Technician Warrant Officer Advanced Course (WOAC).
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Successfully complete the Warrant Officer Staff Course (WOSC).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Serves as a technician or technical manager in a narrow technical functional area; generally at platoon, detachment or company level. Additionally, will serve at battalion level in a junior position where other senior Airborne Systems Technician(s) are assigned.
 - (b) Provides broad general guidance and final approval of plans for the repair of parachutes and associated equipment; and establishment of rigging sites that support airdrop and airborne operations.
 - (c) Instructs and trains assigned personnel in airdrop procedures and equipment support techniques.
 - (d) Provides unit certification and continuing validation of technical proficiency of personnel and/or products.
 - (e) Ensures the use of doctrinal procedures in adjustments, care and preservation of parachutes, support equipment, tools and machinery.
 - (f) Coordinates loading of equipment and supplies into aircraft and participates in joint airdrop load inspections.
 - (g) Provides technical advice to the command and staff responsible for selecting, establishing and organizing fixed and mobile facilities for rigging and packaging equipment to be dropped from aircraft.
 - (h) Provides technical advice in all areas of airdrop operations for the organization's mission responsibilities.

(2) CW3--

(a) Performs duties described in paragraph g(1).
(b) Serves as the senior Airdrop Systems Technician in mid-level management positions; generally at the platoon, detachment, company and battalion level requiring a certain degree of independence from supervision.

(c) Serves as the commander's senior technical advisor/analysis in all areas of airdrop operations for the organization's mission responsibilities.

(3) CW4--

(a) Performs duties described in paragraph g(2).
(b) Serves as the senior Airdrop Systems Technician in positions requiring advanced level staff and technical skills; generally at Corps or higher levels; positions requiring independence from supervision.

(c) Is responsible for synthesizing airdrop activities with all MACOMs, Integrating Centers and TRADOC schools.

(d) Synthesizes airdrop activities with all MACOMs, Integrating Centers and TRADOC schools.

(e) Provides direct interface with Air Force, Navy and Marine Corps elements involved in airdrop operations.

(f) Serves in positions requiring advanced technical skills to perform duties relate to test and evaluation and the development of safety policy and doctrine.

(g) Instructs and provide technical advice to countries in the development and management of their respective airdrop systems.

(4) CW5--

(a) Performs duties described in paragraph g(3).
(b) Serves as the most senior Airdrop Systems Technician in positions which require an unusual depth and breadth of technical knowledge for functional training and curriculum development or major systems integration skills.

(c) Provides technical advice and assistance in regards to airdrop activities worldwide, to include all aspects of training, personnel, doctrine, force structure, research, development, and requirements.

(d) Develops, reviews and updates the life-cycle management of Airborne Systems Technicians structure and force.

h. Physical demands category, grading and position titles.

(1) Physical Demands Category (PDC) – Moderate.

(2) *Table 8-921A-1.* Physical requirements.

(3) Authorized position titles are provided in appendixes B and C. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-921A-2.* Standards of grade TOE/MTOE.

(b) *Table 8-921A-3.* Standards of grade TDA.

8-922. MOS 922A--Food Service Technician

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Cir 601 series.
- c. *MOS 922A.* MOS 922A is an accession MOS. The enlisted feeder MOS is 92G.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition (personnel only).
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)).
- f. *Qualifications.*
 - (1) *WO1/CW2 must--*
 - (a) Successfully complete the Food Service Technician Warrant Officer Basic Course (WOBC).
 - (b) Have 20/20 correctable vision and normal color discrimination per AR 40-501.
 - (c) Have normal hearing.
 - (d) Be a U.S. citizen. Qualify for a security clearance of SECRET.
 - (e) A physical demands rating of Moderate (Gold).
 - (f) A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, Seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category in “Moderate” (Gold).
 - (2) *CW3 must--*
 - (a) Meet qualifications described in paragraph f(1).
 - (b) Successfully complete the Food Service Technician Warrant Officer Advanced Course (WOAC).
 - (3) *CW4 must--*
 - (a) Meet qualifications described in paragraph f(2).
 - (b) Successfully complete the Warrant Officer Staff Course (WOSC).
 - (4) *CW5 must--*
 - (a) Meet qualifications described in paragraph f(3).
 - (b) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).
- g. *Duties.*
 - (1) *WO1/CW2--*
 - (a) Serves as a technician or technical manager in a narrow technical functional area, generally as the Brigade/Group Food Service Technician or as the Assistant Division Food Service Advisor. Additionally, can serve as an Installation Food Program Manager.
 - (b) Manages personnel, equipment and facilities to implement the Army Field Feeding System, in training and mobilization during peace and wartime.
 - (c) Advises commanders on matters pertaining to the Army Field Feeding System and Theater of Operations.
 - (d) Supervises subordinate unit dining facilities and field kitchens.
 - (e) Trains military and civilian personnel in procurement, storage, preparation and serving of food.
 - (f) Coordinates with Troop Issue Subsistence Activity (TISA) and Field Ration Break Point to ensure smooth and efficient flow of rations to dining facilities and field kitchens.
 - (g) Plan, train, oversees and evaluates ration break operations at all levels in the acquisition, receipt, storage, ration configuration, shipments, accountability for subsistence, water, ice religious operational rations, health and comfort packs in garrison, field training and theater of operations.
 - (h) Conducts surveys of food, equipment, personnel and facilities.
 - (i) Budgets for and requisitions supplies and equipment to include replacing equipment through life-cycle management. Prepares reports on design deficiencies in equipment and facilities.

- (j) Coordinates with preventive medicine, veterinary and nutritional personnel on sanitation, nutritional surveys and in menu testing.
- (k) Interprets and disseminates food service information, inspects field and installation food service operations and provides technical assistance to non-appropriated fund food service activities.
- (l) Provides technical advice to the commander and staff during preparation of operational plans.

(2) CW3--

- (a) Performs duties described in paragraph g(1).
- (b) Serves in positions requiring a level of independence from supervision; such as the Division Food Service Advisor or as Command Food Service Technician for an Area Support Group or Corp Support Group.
- (c) Advises on matters pertaining to the establishment of programs in the culinary arts for Army food service personnel.

(3) CW4--

- (a) Performs duties described in paragraph g(2).
- (b) Serves as the senior Food Service Technician in positions requiring advanced level staff and technical skills; generally at the Corps or MACOM level, positions requiring independence from supervision.
- (c) Instructs and provides technical advice to other countries in the development and management of their food service program.

(4) CW5--

- (a) Perform duties described in paragraph g(3).
- (b) Serves as the most senior Food Service Technician in positions which require an unusual depth and breadth of technical knowledge for functional training and curriculum development or major systems integration skills.
- (c) Develops reviews and updates the life-cycle management for all Food Service warrant officers.
- (d) Advises MACOM commanders dealing in force modernization, personnel management, logistic support analysis, integrated logistics support and integrated food service support.
- (e) Serves in positions such as the Army's Food Advisor, MACOM Food Service Technician or may be selected to serve in QM branch MOS immaterial positions such as the career manager at AHRC or as Chief Warrant Officer of the Quartermaster Corps. Additionally, may be selected to serve in Army Warrant Officer immaterial positions at the DA level.

h. Physical demands category, grading and position titles.

- (1) Physical Demands Category (PDC) – Moderate.
- (2) *Table 8-922A-1.* Physical requirements.

(3) Authorized position titles are provided in appendixes B and C. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (a) *Table 8-922A-2.* Standards of grade TOE/MTOE.
- (b) *Table 8-922A-3.* Standards of grade TDA.

8-923. MOS 923A-Petroleum Systems Technician

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* DA Circular 601 series.
- c. *MOS 923A.* MOS 923A is an accession MOS. The primary enlisted MOS feeders are 92F and 92L.
- d. *Associated SQI.*
 - (1) 0-No special qualifications.
 - (2) 8—Instructor.
 - (3) P—Parachutist.
 - (4) T—Transition (personnel only).
 - (5) Z—Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.* (Note: Refer to table 6-6 for (Listing of universal ASI's associated with all warrant officer MOS)).
- f. *Qualifications.*
 - (1) WO1/CW2 must--
 - (a) Successfully complete the Petroleum Technician Warrant Officer Basic Course (WOBC).
 - (b) Have 20/20 correctable vision and normal color discrimination per AR 40-501.
 - (c) Have normal hearing.
 - (d) Be a U.S. citizen. Qualify for a security clearance of SECRET.
 - (e) A physical demands rating of Moderate (Gold).
 - (f) A minimum OPAT score of Standing Long Jump (LJ) – 0120 cm, Seated Power Throw (PT) – 0350 cm, Strength Deadlift (SD) – 0120 lbs., and Interval Aerobic Run (IR) – 0036 shuttles in Physical Demand Category in "Moderate" (Gold).
 - (2) CW3 must--
 - (a) Meet qualification described in paragraph f(1).
 - (b) Successfully complete the Petroleum Technician Warrant Officer Advanced Course (WOAC).
 - (3) CW4 must--
 - (a) Meet qualification described in paragraph f(2).
 - (b) Successfully complete the Warrant Officer Staff Course (WOSC).
 - (4) CW5 must--
 - (a) Meet qualification described in paragraph f(3).
 - (b) Successfully complete the Warrant Officer Senior Staff Course (WOSSC).
- g. *Duties.*
 - (1) WO1/CW2--
 - (a) Serves as a technician or technical manager in a narrow technical functional area, generally at battalion or lower level organizations. Additionally, may serve in junior level position in organizations where other senior petroleum technician(s) are assigned.
 - (b) Service the technical aspects of petroleum operations.
 - (c) Instruct, manage and supervise personnel within a Petroleum Supply Company concerning petroleum policy and functional procedures.
 - (d) Provide technical guidance to personnel of supported units/activities in order to establish and maintain adequate petroleum stockage levels for mission accomplishment.
 - (e) Manage the assignment of duties, spot checks work adequacy and instructs and supervises subordinates in work techniques and procedures.
 - (f) Estimate requirements for personnel, equipment, user/organizational maintenance and repair of petroleum distribution facilities.
 - (g) Review, consolidate and prepare technical reports associated with POL activities in assigned unit. Supervise quality surveillance operation.
 - (h) Assist command and staff officers in appraisals of petroleum operations. Assist in coordination and implementation of operations, training programs, administrative matters and communication activities.
 - (i) Develop standard operating procedures and performs administrative duties related to the petroleum operation.
 - (2) CW3--
 - (a) Perform duties described in paragraph g(1).

(b) Serves as the senior petroleum technician in mid-level management positions; generally at the material manager level in Division/COSCOM.

(c) Serves as a team leader or member at the following:

1. Division, Division Material Management Center (DMMC).

2. Corps, Material Management Center.

3. Corps Support Command, Material Management Division

(d) Serves as the commander's senior technical advisor/analyst in all areas of petroleum operations for the organization's mission responsibilities.

(3) CW4--

(a) Performs duties described paragraphs g(2).

(b) Serves as the senior petroleum technician in positions required advanced level staff technical skills; generally at Corps or higher level; positions requiring independence from supervision.

(c) Responsible for synthesizing petroleum activities with all MACOMs, integrating centers and TRADOC schools.

(d) Provides direct interface with Air Force, Navy and Marine Corps elements involved in petroleum operations.

(e) Serves in positions requiring advanced technical skills to perform duties related to test and evaluation and the development of safety policy and doctrine.

(f) Instructs and provides technical advice to other countries in the development and management of their respective petroleum operation systems.

(g) Instructs and monitors students in a service school environment.

(4) CW5--

(a) Performs duties as described in paragraphs g(3).

(b) Serves as the most senior petroleum technician in positions that require unusual depth and breadth of technical knowledge for functional training and curriculum development or major systems integration skills.

(c) Provides technical advice and assistance in regards to petroleum activities worldwide, to include all aspects of training, personnel, doctrine, force structure, research and development and requirements.

(d) Develop, review and updates the life-cycle management of the petroleum technician's structure and force.

(e) Perform duties as proponent level personnel systems integrator.

h. Physical demands category, grading and position titles.

(1) Physical Demands Category (PDC) – Moderate.

(2) *Table 8-923A-1.* Physical requirements.

(3) Authorized position titles are provided in appendixes B and C. The following grades are used to code positions into one of four definable skill levels: W2 equals WO1/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-923A-2.* Standards of grade TOE/MTOE.

(b) *Table 8-923A-3.* Standards of grade TDA.

8-948B. Military Occupational Specialty 948B--Electronic Systems Maintenance Warrant Officer

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* AR 135-100 and DAPAM 601-6, and DA PAM 611-21
- c. *MOS 948B.* MOS 948B is an accession MOS. The enlisted feeder MOSs are: 25S (with waiver), 94D, 94E, 94F, 94H, 94M, 94R, 94W, 94Y, and 94Z.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition.
 - (5) Z--Research, Development, Test, and Evaluation Technician.
- e. *Associated ASI.*
 - (1) Refer to DA PAM 611-21 table 6-6 (listing of universal ASIs associated with all Warrant Officer MOSs)
- f. *Qualifications.*
 - (1) WO1/CW2 must -
 - (a) Successfully complete the Electronic Systems Maintenance Officer Warrant Officer Basic Course (WOBC).
 - (b) Have correctable vision, normal color discrimination, normal hearing, and full use of upper and lower extremities per AR 40-501.
 - (2) CW3 must -
 - (a) Meet qualifications as listed in paragraph f (1) above.
 - (b) Have successfully completed the Electronic Systems Maintenance Officer Warrant Officer Advanced Course (WOAC).
 - (3) CW4 -
 - (a) Meet qualifications as listed in paragraph f (2) above.
 - (b) Successfully complete the Warrant Officer Intermediate level Education (WOILE).
 - (4) CW5-See MOS 948E.
- g. *Duties.*
 - (1) WO1/CW2--
 - (a) Establishes section safety and crime/security prevention programs that ensures adherence to safety and crime/security prevention policies, practices, and regulations associated with these programs are followed.
 - (b) Manages personnel, equipment, and facility assets for the installation, operation, repair, maintenance, and modification of radio, radar, computer, electronic data processing, controlled cryptographic items, television, fiber optical, radiological and related communications equipment and associated tools, test and accessory equipment. Establishes section SOPs and instructions to ensure that a proper work environment is maintained. Ensures all assigned personnel adhere to maintenance schedules, The Army Maintenance Management Systems (TAMMS), Quality Assurance and Quality Control (QA-QC) procedures, and all Logistics Information Systems (LIS)
 - (c) Ensures that personnel are trained to use the tools, test equipment, applicable publications for the completion of the mission and are trained in automation skill relevant to their duties.
 - (d) Ensures that his/her section is deployable by supervising maintenance of the LIS develops, rehearses and implements load plans and deployment scenarios, establishes field SOPs and ensure that all facilities of the Mission Essential Task List (METL) are adhered to.
 - (e) Ensures that proper Logistics Information System tracking systems are utilized.
 - (f) Solves problems by interpreting technical data and schematics, researches and interprets supply data, fabricates repair parts when appropriate and uses outside resources when needed. Coordinate technical, and administrative and logistical interface between the maintenance activity and supported units.
 - (g) Advises commander and staff officers on electronic equipment's development, procurement, capabilities, limitations and employment.

- (h) Establishes, monitors, and maintains a comprehensive environmental protection program per national and local directives
- (i) Performs other company grade officer level duties as required/essential to the unit mission.

(2) CW3--

- (a) Performs duties described for the warrant officer level in para g (1) above.
- (b) Serves as an instructor/writer in an Army or joint service school.
- (c) Advises members of allied forces using signal and electronic equipment. Assists commanders of supported units in identifying and scheduling TMDE support requirements and provide technical assistance when needed.
- (d) Serves as principal advisor to materiel management centers and all relevant staff offices on TMDE and subordinate maintenance facility matters.
- (e) Responsible for all maintenance aspects related to Avionics Systems.
- (f) Serves as Ordnance technical subject matter expert (SME) in training, capabilities and materiel development positions..
- (g) Serves as Electronic Systems Maintenance Warrant Officer, with procurement activities, in research/development/test and evaluation activities or as an Electronic Systems Maintenance Warrant Officer in a MACOM/sub-MACOM involved in calibration equipment/TMDE development support activities.
- (h) Interprets, applies, and disseminates administrative, technical, logistical, and supply publications and related data.
- (i) Plans, prepares, and maintains an operating budget for the detachment/team and monitors fiscal allocation commitments and expenditures and maintains accountability. Certifies accuracy of instrumentation and ensures that accuracy is traceable to higher level standards. Manages Instrument Master Record File (IMRF) and Calibration Management Information System (CALMIS), for scheduled and supported items of TMDE and serves as system administrator for local Automated Data Processing Equipment (ADPE) systems.

(3) CW4:

- (a) Is proficient in the duties described for the CW3 listed in paragraph g (2).
- (b) Performs duties and serves with procurement as a research, development, test, and evaluation technician.
- (c) Presents written or oral briefings to line, staff, and professional personnel on maintenance and related subject matters and provide staff studies or papers on pertinent maintenance and personnel issues.
- (d) Provides technical and tactical assistance at any echelon of command or support activity for the U.S. Army or liaison activities with allied armies.
- (e) Monitors, coordinate, analyze contracting, procurement, and material acquisition programs for new and existing electronic equipment. Provides data and technical guidance concerning future requirements, modification work order (MWO), product improvement program (PIP), and related program information that has an impact upon Life Cycle Systems Management (LCSM) of electronic equipment.
- (f) Provides coordination between military and industry during development, testing, and fielding of new electronic equipment.
- (g) Manages the development of training packages to ensure Army personnel are prepared to operate and maintain the new systems prior to fielding.

(4) CW5 must see MOS 948E.

h. *Physical demands category, grading and position titles.*

- (1) Physical Demands Category (PDC) – Moderate (Gold).
- (2) A minimum OPAT score of (Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles) is required in Physical Demand Category "Moderate" (Gold).
- (3) The following grades are used to code positions into one of four definable skill levels: W2 equals W01/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:
 - (a) *Table 8-948B-2. Standards of grade TOE/MTOE.*
 - (b) *Table 8-948B-3. Standards of grade TDA.*

8-948D. Military Occupational Specialty 948D—Electronic Missile Systems Maintenance Warrant Officer

- a. Licensing/certification requirement.* None.
- b. Prerequisites.* AR 135-100, DA PAM 601-6, and DA PAM 611-21.
- c. MOS 948D.* MOS 948D is an accession MOS. The enlisted feeder MOSs are: 94A, 94M, 94P, 94S, 94T, 94W and 94Z.
- d. Associated SQI.*
 - (1) 0—No special qualifications.
 - (2) 8—Instructor.
 - (3) P—Parachutist.
 - (4) T—Transition
 - (5) Z—Research, Development, Test and Evaluation Technician.
- e. Associated ASI.*
 - (1) Refer to DA PAM 611-21 table 6-6 (listing of universal ASIs associated with all Warrant Officer MOSs)
- f. Qualifications.*
 - (1) WO1/CW2 must -
 - (a) Successfully complete the Electronic Missile Systems Maintenance Warrant Officer Basic Course (WOBC).
 - (b) Have correctable vision, normal color discrimination, normal hearing, and full use of upper and lower extremities per AR 40-501.
 - (2) CW3 must -
 - (a) Meet qualifications as listed in paragraph f(1) above.
 - (b) Successfully complete the Electronic Missile Maintenance Warrant Officer Advanced Course (WOAC).
 - (3) CW4 must
 - (a) Meet qualifications as listed for in paragraph f(2) above.
 - (b) Successfully complete the Warrant Officer Intermediate Level Education (WOILE).
 - (4) CW5 must see MOS 948E.
- g. Duties.*
 - (1) WO1/CW2-
 - (a) Implements proper crime prevention, security and safety (IAW OSHA) procedures.
 - (b) Employs digital switching theory, logic, computer fundamentals and infrared fundamentals applicable to the Army's missile systems and associated equipment. Responsible for the operation of maintenance support teams and field level maintenance facilities. Monitor unit status reporting requirements for tactical missile units and associated support elements. Supervise field level maintenance repair, organic tools, test sets, and associated training equipment. Estimates supply requirements, observes work practices, and detects and corrects improper procedures and techniques. Initiates and monitors Product Quality Discrepancy Report (PDQR) Supply Discrepancy Report (SDR) engineering changes proposal (ECP) documents. Ensures quality assurance/quality control (QA/QC) procedures are followed, to include calibration.
 - (c) Applies theory and fundamentals of solid-state devices and optics employed in guidance and sighting systems. Directs test procedures, diagnostic system analysis and troubleshooting techniques. Directs and assists personnel in solving complex problems of diagnosis, and modification, of automated test equipment used in support of missile systems.
 - (d) Directs the operation of Logistics Information Systems (LIS) for field level repairs and parts. Develops, coordinates, updates, and applies internal administration procedures to requisition, receive, issue, and store repair parts, tools, publication, supplies, appropriates shop supply procedures and maintenance related items.
 - (e) Advises commanders on technical aspects of missile systems maintenance, support testing and supply.

(f) Instructs subordinates in operating procedures, maintenance techniques, interpreting technical data used in care of special tools and supporting equipment, as well as The Army Maintenance Management System (TAMMS).

(g) Establishes, monitors, and maintains a comprehensive environmental protection program in accordance with international, national and local directives.

(2) CW3 -

(a) Performs duties described in para g(1) above.

(b) Provides technical guidance and direction to subordinate elements and serves as a technical or tactical advisor for missile systems. Manages the Army repair parts system and performs as a liaison to supported units to determine future support requirements and satisfaction with current support requirements.

(c) Develops and writes training material, and instructs/supervises at Army service schools. Serve as a service school instructor or project officer at staff level.

(d) Performs duties as a research, development, test, and evaluation technician.

(e) Is proficient in all aspects of missile maintenance operations and manages/directs maintenance operations in a tactical environment.

(f) Analyzes complex malfunctions occurring in missile systems and auxiliary equipment.

(g) Directs operations, maintenance, and calibrations of the ATE.

(h) Develops, implements, and monitors programs of instruction that enhance training of other warrant officer and enlisted MOSs.

(i) Monitors, identifies, and rectifies anomalies in the requisition life cycle of repair parts requisitions.

(j) Assists the commander or maintenance control officer in the application of available automation resources to optimize shop operations.

(3) CW4-

(a) Is proficient in the duties described for the CW3 listed in paragraph g(2).

(b) Performs duties and serves with procurement as a research, development, test, and evaluation technician.

(c) Presents written or oral briefings to line, staff, and professional personnel on maintenance and related subject matters and provide staff studies or papers on pertinent maintenance and personnel issues.

(d) Provides technical and tactical assistance at any echelon of command or support activity for the U.S. Army or liaison activities with allied armies.

(e) Monitors, coordinate, analyze contracting, procurement, and material acquisition programs for new and existing electronic equipment. Provides data and technical guidance concerning future requirements, modification work order (MWO), product improvement program (PIP), and related program information that has an impact upon Life Cycle Systems Management (LCSM) of electronic missile equipment.

(f) Provides coordination between military and industry during development, testing, and fielding of new electronic missile equipment.

(g) Manages the development of training packages to ensure Army personnel are prepared to operate and maintain the new systems prior to fielding.

(4) CW5 must see MOS 948E.

h. *Physical demands category, grading and position titles.*

(1) Physical Demands Category (PDC) – Moderate (Gold).

(2) A minimum OPAT score of (Standing Long Jump (LJ) - 120 cm, seated Power Throw (PT) - 350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 36 shuttles) is required in Physical Demand Category “Moderate” (Gold).

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals W01/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

(a) *Table 8-948D-2. Standards of grade TOE/MTOE.*

(b) *Table 8-948D-3. Standards of grade TDA.*

8-948E. Military Occupational Specialty 948E—Senior Electronics Maintenance Warrant Officer

- a. *Licensing/certification requirement.* None.
- b. *Prerequisites.* Demonstrated proficiency in MOS 948B or 948D. AR 135-100, DA PAM 601-6, and DA PAM 611-21
- c. *MOS 948E.* MOS 948E is a non-accession MOS. The Warrant Officer feeder MOSs are: MOS 948B and MOS 948D.
- d. *Associated SQI.*
 - (1) 0--No special qualifications.
 - (2) 8--Instructor.
 - (3) P--Parachutist.
 - (4) T--Transition.
 - (5) Z--Research, Development, Test and Evaluation Technician.
- e. *Associated ASI.* Refer to DA PAM 611-21 table 6-6 (listing of universal ASIs associated with all Warrant Officer MOSs)
- f. *Qualifications.*
 - (1) *W01/CW2 must see MOS 948B or MOS 948D.*
 - (2) *CW3 must see MOS 948B or MOS 948D.*
 - (3) *CW4 must see MOS 948B or MOS 948D.*
 - (4) *CW5 must:*
 - (a) Meet the qualifications as listed in paragraph f (1,2, 3) above.
 - (b) Successfully complete the Warrant Officer Senior Service Education (WOSSE).
 - (c) Successfully perform at the CW4 level as described in paragraphs g(1, 2, 3) below.
- g. *Duties.*
 - (1) *W01/CW2 must see MOS 948B or MOS 948D.*
 - (2) *CW3 must see MOS 948B or MOS 948D.*
 - (3) *CW4 must see MOS 948B or MOS 948D*
 - (4) *CW5:*
 - (a) Is proficient in the duties described for the CW4 level in paragraphs g(3) above.
 - (b) Manages various maintenance programs to include directing assembly line techniques, repair, and supply procedures appropriate to mobile, fixed, and depot shop conditions in the repair/rebuild of electronic systems and other depot activities.
 - (c) Coordinates contracting, procurement, and material acquisition programs and manages the development of training packages to ensure that Army personnel are prepared to operate and maintain new systems prior to fielding.
 - (d) Administers personnel management matters pertaining to CMFs 91 and 94; integrates electronics maintenance technical functions across MACOM or Department of the Army levels; oversees the MOS Life Cycle Management for all personnel proponent functions, for all Electronics Maintenance Ordnance Corps Warrant Officer MOS and serves as the electronic maintenance system or personnel integrator at MACOM or personnel proponent level.
 - (e) Serves as technical and tactical advisor for electronics systems at any echelon of command or support activity of the U.S. Army or in Military Advisory Groups assigned to allied armies and provides leadership, guidance, technical input and direction to subordinate elements, staff agencies and field commanders up to and including theater Army level.
 - (f) Manages the assignment of Electronics Maintenance Ordnance Corps Warrant Officers worldwide.
 - (g) Provides coordination between military and industry during development, testing, and fielding of new electronic equipment
 - (h) Technical advisor for the electronics equipment procurement process.
 - (i) Operates within the research and development area of electronics systems.
 - (j) Serves as a system or personnel integrator at MACOM or personnel proponent level.
 - h. *Physical demands category, grading and position titles.*
 - (1) Physical Demands Category (PDC) – Moderate (Gold).

(2) A minimum OPAT score of (Standing Long Jump (LJ) - 0120 cm, seated Power Throw (PT) - 0350 cm, Strength Deadlift (SD) - 0120 lbs., and Interval Aerobic Run (IR) - 0036 shuttles) is required in Physical Demand Category "Moderate" (Gold).

(3) The following grades are used to code positions into one of four definable skill levels: W2 equals W01/CW2; W3 equals CW3; W4 equals CW4; and W5 equals CW5. The grades are listed in the following standards of grade tables:

- (a) *Table 8-948E-2. Standards of grade TOE/MTOE.*
- (b) *Table 8-948E-3. Standards of grade TDA.*