DUTY AREA
AIRCRAFT COMMUNICATIONS/NAVIGATION SYSTEMS TECHNICIAN (MOS 6316)

A. GENERAL, OPERATIONAL AND SAFETY DUTIES

1. Operates and maintains applicable shop **support/special equipment**.
2. Demonstrates/applies knowledge of applicable aircraft **publications, diagrams, sketches, and drawings**.
3. Performs tasks on the aircraft using applicable **precision measuring equipment**.
4. Demonstrates/applies applicable **safety precautions and procedures** around the aircraft and work center.

B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES

1. Performs required scheduled/unscheduled inspections on applicable systems/components as per Maintenance Requirement Cards.
2. Incorporates applicable technical directives system.
3. Demonstrates/applies knowledge of the principles of wire/connector repair and performs applicable organizational level maintenance using appropriate maintenance procedures and support/test equipment.
4. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the mission computers using appropriate maintenance procedures and support/test equipment.
5. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Bus Interface Units (BIU) using appropriate maintenance procedures and support/test equipment.
6. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Bus Adapter Units (BAU) Type I and Type II using appropriate maintenance procedures and support/test equipment.
7. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Comm/Nav/ECB panel (CNBP) using appropriate maintenance procedures and support/test equipment.
8. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Avionics Management Unit (AMU) using appropriate maintenance procedures and support/test equipment.
9. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the Heads Down Display (HDD) using appropriate maintenance procedures and support/test equipment.
10. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Comm/Nav/ID management system (CNI-MU)** using appropriate maintenance procedures and support/test equipment.
11. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Advisory, Caution, and Warning System (ACAWS)** using appropriate maintenance procedures and support/test equipment.
12. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Cockpit Voice Recorder (CVR)** using appropriate maintenance procedures and support/test equipment.
13. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Digital Flight Data Recorder (DFDR)** using appropriate maintenance procedures and support/test equipment.
14. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **underwater locator beacon** using appropriate maintenance procedures and support/test equipment.
15. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Emergency Locator Transmitter (ELT)** using appropriate maintenance procedures and support/test equipment.
16. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Dual Slot Data Transfer System (DSDTS)** using appropriate maintenance procedures and support/test equipment.

17. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **public address system** using appropriate maintenance procedures and support/test equipment.
18. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Intercommunications System (ICS)** using appropriate maintenance procedures and support/test equipment.
19. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARC-164 UHF system** using appropriate maintenance procedures and support/test equipment.
20. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARC-222 VHF system** using appropriate maintenance procedures and support/test equipment.
21. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARC-190 HF system** using appropriate maintenance procedures and support/test equipment.
22. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Satellite Communication System (SATCOM)** using appropriate maintenance procedures and support/test equipment.
23. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **ANDVT secure voice system** using appropriate maintenance procedures and support/test equipment.
24. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **KY-58 secure voice system** using appropriate maintenance procedures and support/test equipment.
25. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **EGI system** using appropriate maintenance procedures and support/test equipment.
26. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARN-147 VHF Navigation system** using appropriate maintenance procedures and support/test equipment.
27. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARN-139(V) TACAN system** using appropriate maintenance procedures and support/test equipment.
28. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARN-153(V) TACAN system** using appropriate maintenance procedures and support/test equipment.
29. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **DF-206 Automatic Direction Finder (ADF) system** using appropriate maintenance procedures and support/test equipment.
30. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **DF-301E UHF-DF system** using appropriate maintenance procedures and support/test equipment.
31. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Low Power Color Radar (LPCR)** using appropriate maintenance procedures and support/test equipment.
32. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **cursor control panel** using appropriate maintenance procedures and support/test equipment.
33. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **digital mapping system** using appropriate maintenance procedures and support/test equipment.
34. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **HG-9550 radar altimeter** using appropriate maintenance procedures and support/test equipment.
35. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Enhanced Traffic Alert and Collision Avoidance system (ETCAS)** using appropriate maintenance procedures and support/test equipment.
36. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/APX-100 (V) IFF system** using appropriate maintenance procedures and support/test equipment.

37. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Angle of Attack (AOA)** using appropriate maintenance procedures and support/test equipment.
38. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **digital autopilot/ flight director system** using appropriate maintenance procedures and support/test equipment.
39. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **defensive systems control panel** using appropriate maintenance procedures and support/test equipment.
40. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/AAR-47 MWS** using appropriate maintenance procedures and support/test equipment.
41. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ALR-56M RWR** using appropriate maintenance procedures and support/test equipment.
42. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ALQ-157 IRCM** using appropriate maintenance procedures and support/test equipment.
43. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ALE-47 CMDS** using appropriate maintenance procedures and support/test equipment.

SKILL PROGRESSION LEVEL DEFINITIONS

LEVEL I: An asterisk in level I indicates the task is taught at the “Entry Level (A) School”.

Level II: An asterisk in level II indicates the task is taught at the NAMTRA MARUNIT. Other tasks in level II not indicated with an asterisk will be signed off when exposed to the individual for the first time. All subsequent training, which the Marine performs after initial exposure, should be annotated on the OPNAV 4790/33 form until he/she is signed off in level III.

LEVEL III: An asterisk in level III indicates the task is considered training essential. A sign-off in level III indicates the Marine can perform that task w/o direct supervision. The unit is responsible for these sign-off’s.

LEVEL IV: Used by the unit to indicate an individual is advanced in technical and supervisory functions. Prior to sign-off, all training essential and training optional tasks in level III must have been signed-off. Only one sign-off for the Duty Area is required.

Sign–off blanks: **(MO/YR)/(INDIDVIDUAL’S INITIALS)/(SUPERVISOR’S INTIALS)**

Note: Refer to MCO P4790.20 for further clarification.

INDIVIDUAL DUTY AREA QUALIFICATION SUMMARY
AIRCRAFT COMMUNICATIONS/NAVIGATION SYSTEMS TECHNICIAN (MOS 6316)

NAME/SSN ____

Granted MOS 6311 _________/_________
Granted MOS 6316 _________/_________

Level II Completed_________/_________
Level III Completed_________/_________
Level IV Completed_________/_________

DUTY #	DUTY DESCRIPTION	LEVEL I DATE/SIGN	LEVEL II DATE/SIGN	LEVEL III DATE/SIGN	LEVEL IV DATE/SIGN
A.	GENERAL, OPERATIONAL AND SAFETY DUTIES	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
A.1	SUPPORT/SPECIAL EQUIPMENT	XXXXXXXXXXXXXXXXX	/	/	/
A.2	PUBLICATIONS, DIAGRAMS, SKETCHES, AND DRAWINGS	XXXXXXXXXXXXXXXXX	/	/	/
A.3	PRECISION MEASURING EQUIPMENT	XXXXXXXXXXXXXXXXX	/	/	/
A.4	SAFETY PRECAUTIONS AND PROCEDURES	XXXXXXXXXXXXXXXXX	/	/	/
B.	SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
B.1	SCHEDULED/UNSCHEDULED INSPECTIONS	XXXXXXXXXXXXXXXXX	/	/	/
B.2	TECHNICAL DIRECTIVES SYSTEM	XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXX	/	/
B.3	WIRE/CONNECTOR REPAIR	XXXXXXXXXXXXXXXXX	/	/	/
B.4	MISSION COMPUTERS	XXXXXXXXXXXXXXXXX	/	/	/
B.5	BUS INTERFACE UNITS (BIU)	XXXXXXXXXXXXXXXXX	/	/	/
B.6	BUS ADAPTER UNITS (BAU) Type I and Type II	XXXXXXXXXXXXXXXXX	/	/	/
B.7	COMM/NAV/ECB PANEL (CNBP)	XXXXXXXXXXXXXXXXX	/	/	/
B.8	AVIONICS MANAGEMENT UNIT (AMU)	XXXXXXXXXXXXXXXXX	/	/	/
B.9	HEADS DOWN DISPLAY (HDD)	XXXXXXXXXXXXXXXXX	/	/	/
B.10	COMM/NAV/ID MANAGEMENT SYSTEM (CNI-MU)	XXXXXXXXXXXXXXXXX	/	/	/
B.11	ADVISORY, CAUTION AND WARNING SYSTEM (ACAWS)	XXXXXXXXXXXXXXXXX	/	/	/
B.12	COCKPIT VOICE RECORDER (CVR)	XXXXXXXXXXXXXXXXX	/	/	/
B.13	DIGITAL FLIGHT DATA RECORDER (DFDR)	XXXXXXXXXXXXXXXXX	/	/	/
B.14	UNDERWATER LOCATOR BEACON	XXXXXXXXXXXXXXXXX	/	/	/
B.15	EMERGENCY LOCATOR TRANSMITTER (ELT)	XXXXXXXXXXXXXXXXX	/	/	/
B.16	DUAL SLOT DATA TRANSFER SYSTEM (DSDTS)	XXXXXXXXXXXXXXXXX	/	/	/
B.17	PUBLIC ADDRESS SYSTEM	XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXX	/	/
B.18	INTERCOMMUNICATIONS SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.19	AN/ARC-164 UHF SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.20	AN/ARC-222 VHF SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.21	AN/ARC-190 HF SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.22	SATELLITE COMMUNICATION SYSTEM (SATCOM)	XXXXXXXXXXXXXXXXX	/	/	/
B.23	ANDVT SECURE VOICE SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.24	KY-58 SECURE VOICE SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.25	EGI SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.26	AN/ARN-147 VHF NAVIGATION SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.27	AN/ARN-139 (V) TACAN SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.28	AN/ARN-153 (V) TACAN SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.29	DF-206 AUTOMATIC DIRECTIONAL FINDER (ADF)	XXXXXXXXXXXXXXXXX	/	/	/
B.30	DF-301E UHF-DF	XXXXXXXXXXXXXXXXX	/	/	/
B.31	LOW POWER COLOR RADAR (LPCR)	XXXXXXXXXXXXXXXXX	/	/	/
B.32	CURSOR CONTROL PANEL	XXXXXXXXXXXXXXXXX	/	/	/
B.33	DIGITAL MAPPING SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/

DA IQR (Continued)

		LEVEL I	LEVEL II	LEVEL III	LEVEL IV
DUTY #	DUTY DESCRIPTION	DATE/SIGN	DATE/SIGN	DATE/SIGN	DATE/SIGN
B.34	HG-9550 RADAR ALTIMETER	XXXXXXXXXXXXXXXXX	/	/	/
B.35	ENHANCED TRAFFIC ALERT AND COLLISION AVOIDANCE SYSTEM (ETCAS)	XXXXXXXXXXXXXXXXX	/	/	/
B.36	AN/APX-100 (V) IFF SYSTEMS	XXXXXXXXXXXXXXXXX	/	/	/
B.37	ANGLE OF ATTACK (AOA)	XXXXXXXXXXXXXXXXX	/	/	/
B.38	DIGITAL AUTOPILOT/FLIGHT DIRECTOR SYSTEM	XXXXXXXXXXXXXXXXX	/	/	/
B.39	DEFENSIVE SYSTEM CONTROL PANEL	XXXXXXXXXXXXXXXXX	/	/	/
B.40	AN/AAR-47 MWS	XXXXXXXXXXXXXXXXX	/	/	/
B.41	AN/ALR-56M RWR	XXXXXXXXXXXXXXXXX	/	/	/
B.42	AN/ALQ-157 IRCM	XXXXXXXXXXXXXXXXX	/	/	/
B.43	AN/ALE-47 CMDS	XXXXXXXXXXXXXXXXX	/	/	/

INDIVIDUAL QUALIFICATION RECORD
AIRCRAFT COMMUNICATIONS/NAVIGATION SYSTEMS TECHNICIAN (MOS 6316)

A. GENERAL, OPERATIONAL AND SAFETY DUTIES

A.1 Operates and maintains applicable shop **support/special equipment**.

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Aircraft maintenance platforms, B-1, B-4, & B-5	NA 19-15-7		/ /	* / /	
B	Connector repair set (DMC-230)	NA 19-15-7		* / /	* / /	
C	Heat gun, HT-900	NA 19-15-7		* / /	* / /	
D	Portable maintenance aid (PMA)	NA01-75GAJ-2834-1		* / /	* / /	

A.2 Demonstrates/applies knowledge of applicable aircraft **publications, diagrams, sketches, and drawings**.

A	Naval Aviation Maintenance Program (NAMP)	OPNAVINST 4790.2_		* / /	* / /	
B	Naval Air Systems Command Technical Manual Program	NA 00-25-100		* / /	* / /	
C	Occupational Safety & Health Administration Manual	OSHA 29 CFR 1910		/ /	* / /	
D	Safety Requirements for Naval Aviation Shore Activities Manual	NAVAIR A1-NAOSH-SAF-000/P5100-1		/ /	* / /	
E	Aircraft Cleaning & Corrosion Control Manual	NA 01-1A-509		* / /	* / /	
F	Avionics Corrosion Control Manual	NA 16-1-540		* / /	* / /	
G	Preservation of Naval Aircraft Manual	NA 15-01-500		* / /	* / /	
H	Support Equipment Corrosion Control Manual	NA 17-1-125		* / /	* / /	
I	Work Unit Code Manual	NA 01-75GAJ-06		* / /	* / /	
J	Maintenance Requirement Cards Decks	NA 01-75GAJ-06		* / /	* / /	
K	Aviation Hydraulics Manual	NA01-75GAJ-29GS-00-1		/ /	/ /	
L	NATOPS Manual	NA 01-75GAJ-1		/ /	/ /	
M	Principles of Operation, System Schematics, Testing & Troubleshooting Manuals	NA 01-75GAJ-00-FR-1 thru NA 01-75GAJ-99-10-1		/ /	* / /	
N	System Maintenance/IPB Manuals	NA 01-75GAJ-4-00 & 1 thru NA 01-75GAJ-4-99		* / /	* / /	
O	Connector/Wire Repair Manuals	NA 01-1A-505		/ /	* / /	

A.3 Performs tasks on the aircraft using applicable **precision measuring equipment**.

A	Operates time domain reflectometer test set	NA01-75GAJ-00GV-00-1		* / /	* / /	
B	Operates multimeter	NA01-75GAJ-00GV-00-1		* / /	* / /	
C	Operates watt meter	NA01-75GAJ-00GV-00-1		* / /	* / /	
D	Operates AN/ARM-186 Ramp test set	NA01-75GAJ-34JG-30-1		* / /	* / /	
E	Operates T-49CF ETCAS test set	NA01-75GAJ-34JG-10-1		/ /	* / /	
F	Operates TTU-205 pitot static test set	NA01-75GAJ-34JG-10-1		/ /	* / /	
G	Operates AN/ARM-515 IFF test set	NA01-75GAJ-34JG-50-3		/ /	* / /	
H	Operates AN/ARM-188 TACAN test set	NA01-75GAJ-34JG-50-1		/ /	/ /	
I	Operates TS-4478 MWS test set	NA01-75GAJ-93JG-00-1		/ /	* / /	
J	Operates AN/APM-427 test set	NA01-75GAJ-93JG-00-1		/ /	* / /	
K	Operates AN/ASM-695 test set	NA01-75GAJ-93JG-00-1		/ /	* / /	
L	Operates AN/ALM-288 test set	NA01-75GAJ-99JG-10-1		/ /	* / /	

A.4 Demonstrates/applies applicable **safety precautions and procedures** around the aircraft and work center.

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Ground occupational safety & health programs in specific areas					
A-1	First aid procedures	Marine BST/ Essential Subjects Book		* / /	* / /	
A-2	Use of solvents/paints/strippers/sealants (Shelf life)	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1		* / /	* / /	
A-3	Hazardous materials	OPNAVINST 4790.2_ OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1		* / /	* / /	
A-4	Safety procedures near electricity	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1		* / /	* / /	
A-5	Entry into confined spaces	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1		* / /	* / /	
A-6	Gas free engineering	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1		/ /	* / /	
A-7	Personal protective clothing (Safety/flight boots, clothing, hearing/eye protection, etc)	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1		* / /	* / /	
A-8	Safety markings	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1		* / /	* / /	
B	Precautions & procedures on/around aircraft & support equipment			/ /	* / /	
B-1	Safety procedures on/around turning aircraft	NA01-75GAJ-00GV-00-1 Local Inst		* / /	* / /	
B-2	Safety procedures on/near aircraft with pneumatic power	NA01-75GAJ-00GV-00-1 Local Inst		* / /	* / /	
B-3	Safety procedures on/near aircraft when applying or removing external electrical power	NA01-75GAJ-00GV-00-1 Local Inst		* / /	* / /	
B-4	Safety procedures on/near aircraft with use of hydraulic power	NA01-75GAJ-00GV-00-1 Local Inst		* / /	* / /	
B-5	Safety procedures on/near aircraft with ordnance	NA01-75GAJ-00GV-00-1 Local Inst		* / /	* / /	
B-6	Safety procedures when jacking aircraft or while aircraft is on jacks	NA01-75GAJ-00GV-00-1 Local Inst		* / /	* / /	
B-7	Safety procedures on/near aircraft maintenance platforms	NA01-75GAJ-00GV-00-1 Local Inst		* / /	* / /	
B-8	Safety procedures when washing aircraft	NA01-75GAJ-00GV-00-1 Local Inst		* / /	* / /	
B-9	Safety procedures on/near support equipment operations	NA01-75GAJ-00GV-00-1 Local Inst		* / /	* / /	

DA A.4 (continued)

B-10	Safety procedures when securing aircraft with protective covers/devices (red gear)	NA01-75GAJ-00GV-00-1 Local Inst		*	/	/	*	/	/			
B-11	Safety procedures when installing or removing aircraft safety pins and locks	NA01-75GAJ-00GV-00-1 Local Inst		*	/	/	*	/	/			
C	Line emergency procedures											
C-1	Types of fire extinguishers	NA01-75GAJ-00GV-00-1			/	/	*	/	/			
C-2	Emergency egress procedures	NA01-75GAJ-00GV-00-1			/	/	*	/	/			
C-3	Fire fighting				/	/		/	/			
C-3.1	Proper extinguishing for hot brakes	NA01-75GAJ-00GV-00-1			/	/	*	/	/			
C-3.2	Proper extinguishing for engine fire	NA01-75GAJ-00GV-00-1			/	/	*	/	/			
C-3.3	Proper extinguishing for electrical fire	NA01-75GAJ-00GV-00-1			/	/	*	/	/			
C-3.4	Proper extinguishing for GTC/APU fire	NA01-75GAJ-00GV-00-1			/	/	*	/	/			
C-4	Emergency hand signals	NA01-75GAJ-00GV-00-1			/	/	*	/	/			
D	Hydraulic contamination	OPNAVINST 4790.2_ NA 01-1A-17			/	/	*	/	/			
E	Electro-magnetic interference (EMI), Electrical Static Discharge (ESD), & Electro-Magnetic Compatibility (EMC)	OPNAVINST 4790.2_			/	/	*	/	/			
F	Emergency reclamation	OPNAVINST 4790.2_ NA 01-1A-509 NA 16-1-540			/	/	*	/	/			
G	Aviator Breathing Oxygen (ABO) Program	OPNAVINST 4790.2_			/	/	*	/	/			

INDIVIDUAL QUALIFICATION RECORD
AIRCRAFT COMMUNICATIONS/NAVIGATION SYSTEMS TECHNICIAN (MOS 6316)

B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES

B.1 Performs required **scheduled/unscheduled inspections** on applicable systems/components as per Maintenance Requirement Cards.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Periodic Maintenance Information Cards	01-75GAJ-6			* / /	* / /	
B	Phase Maintenance Requirement Cards				/ /	/ /	
B-1	Performs ISO/Phase Part 1	01-75GAJ-6-4			* / /	* / /	
B-2	Performs ISO/Phase Part 2	01-75GAJ-6-4			* / /	* / /	
B-3	Performs ISO/Phase Part 3	01-75GAJ-6-4			* / /	* / /	
B-4	Performs ISO/Phase Part 4	01-75GAJ-6-4			* / /	* / /	
B-5	Performs ISO/Phase Part 5	01-75GAJ-6-4			* / /	* / /	
C	Performs daily inspection	01-75GAJ-6-2					
D	Performs 105 day inspection	01-75GAJ-6-3			* / /	* / /	
E	Performs 210 day inspection	01-75GAJ-6-3			* / /	* / /	
F	Performs acceptance/transfer inspections	OPNAVINIST 4790.2_			* / /	* / /	

B.2 Incorporates applicable **technical directives system**.

A	Rapid Action Engineering Change (RAMEC) Proposals	NAVAIRINST 5215.10			/ /	* / /	
B	Incorporates Technical Directives changes/bulletins	OPNAVINST 4790.2_			/ /	* / /	

B.3 Demonstrates/applies knowledge of the principles of **wire/connector repair** and performs applicable organizational level maintenance using appropriate maintenance procedures and support/test equipment.

A	Use of crimpers	NA 01-1A-505			* / /	* / /	
B	Use of insertion and removal tools for rear release connectors	NA 01-1A-505			* / /	* / /	
C	Use of wire strippers	NA 01-1A-505			* / /	* / /	
D	Use of wire type list	NA 01-1A-505			* / /	* / /	
E	Repairs coaxial connectors	NA 01-1A-505			* / /	* / /	
F	Performs soldering (normal)	NA 01-1A-505			* / /	* / /	
G	Uses of environmental splices	NA 01-1A-505			* / /	* / /	
H	Repairs aircraft wiring	NA 01-1A-505			* / /	* / /	
I	Uses wire marker	NA 01-1A-505			* / /	* / /	

B.4 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **mission computer** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Mission Computer No.'s 1&2 (MC1 & MC2)	01-75GAJ-46GS-00-1			* / /	* / /	
B	Functional check						

DA B.4 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B-1	Mission Computer No.’s 1&2 (MC1 & MC2)	01-75GAJ-46JG-00-1			* / /	* / /	
C	Fault isolation						
C-1	Mission Computer No.’s 1&2 (MC1 & MC2)	01-75GAJ-46FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R Mission Computer No.1	01-75GAJ-46JG-00-1			/ /	* / /	
D-2	R&R Mission Computer No.2	01-75GAJ-46JG-00-1			/ /	* / /	

B.5 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Bus Interface Unit (BIU)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	BIU No.1 and BIU No.2	01-75GAJ-46GS-00-1			* / /	* / /	
B	Functional check						
B-1	BIU No.1 and BIU No.2	01-75GAJ-46JG-00-1			* / /	* / /	
C	Fault isolation						
C-1	BIU No.1 and BIU No.2	01-75GAJ-46FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R BIU No.1	01-75GAJ-46JG-00-1			/ /	* / /	
D-1	R&R BIU No.2	01-75GAJ-46JG-00-1			/ /	* / /	
D-1	R&R PDU (HUD) tray	01-75GAJ-46JG-00-1			/ /	* / /	

B.6 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Bus Adapter Unit (BAU) Type I and Type II** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	BAU Type I and BAU Type II	01-75GAJ-46GS-00-1			* / /	* / /	
B	Functional check						
B-1	BAU Type I and BAU Type II	01-75GAJ-46JG-00-1			* / /	* / /	
C	Fault isolation						
C-1	BAU Type I and BAU Type II	01-75GAJ-46FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R BAU Type I and BAU Type II	01-75GAJ-46JG-00-1			/ /	/ /	

B.7 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Comm/Nav/ECB panel (CNBP)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Comm/Nav/ECB panel	01-75GAJ-46GS-00-1			* / /	* / /	
B	Functional check						
B-1	Comm/Nav/ECB panel	01-75GAJ-46JG-00-1			* / /	* / /	
C	Fault isolation						
C-1	Comm/Nav/ECB panel	01-75GAJ-46FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R Comm/Nav/ECB panel	01-75GAJ-46JG-00-1			/ /	* / /	

B.8 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Avionics Management Unit (AMU)** using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	AMU	01-75GAJ-46GS-00-1			* / /	* / /	
B	Functional check						
B-1	AMU	01-75GAJ-46JG-00-1			* / /	* / /	
C	Fault isolation						
C-1	AMU	01-75GAJ-46FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R AMU	01-75GAJ-46JG-00-1			/ /	* / /	

B.9 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Heads Down Display (HDD)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	HDD	01-75GAJ-46GS-00-1			* / /	* / /	
B	Functional check						
B-1	HDD	01-75GAJ-46JG-00-1			* / /	* / /	
C	Fault isolation						
C-1	HDD	01-75GAJ-46FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R HDD	01-75GAJ-46JG-00-1			* / /	* / /	
D-2	Align HDD mount bore sight	01-75GAJ-46JG-00-1			* / /	* / /	
D-3	R&R HEU	01-75GAJ-46JG-00-1			/ /	* / /	
D-4	R&R HUD OHU	01-75GAJ-46JG-00-1			/ /	* / /	
D-5	R&R HUD combiner	01-75GAJ-46JG-00-1			/ /	* / /	
D-6	R&R HCP	01-75GAJ-46JG-00-1			/ /	* / /	

B.10 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Comm/Nav/ID Management System (CNI-MU)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	CNI-MU	01-75GAJ-46GS-00-1			* / /	* / /	
B	Functional check						
B-1	CNI-MU	01-75GAJ-46JG-00-1			* / /	* / /	
C	Fault isolation						
C-1	CNI-MU	01-75GAJ-46FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R CNI-MU	01-75GAJ-46JG-00-1			/ /	* / /	
D-2	R&R CNI-SP	01-75GAJ-46JG-00-1			/ /	* / /	

B.11 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Advisory, Caution, and Warning System (ACAWS)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	ACAWS	01-75GAJ-31GS-00-2			* / /	* / /	

DA B.11 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B	Functional check						
B-1	ACAWS	01-75GAJ-31JG-50-1			* / /	* / /	
C	Fault isolation						
C-1	ACAWS	01-75GAJ-31FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R ACAWS speaker	01-75GAJ-31JG-50-1			* / /	* / /	

B.12 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Cockpit Voice Recorder (CVR)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Cockpit voice recorder	01-75GAJ-31GS-00-1			* / /	* / /	
B	Functional check						
B-1	Cockpit voice recorder	01-75GAJ-31JG-30-1			* / /	* / /	
C	Fault isolation						
C-1	Cockpit voice recorder	01-75GAJ-31FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R cockpit recorder	01-75GAJ-31JG-30-1			/ /	* / /	
D-2	R&R CVR microphone	01-75GAJ-31JG-30-1			/ /	* / /	

B.13 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Digital Flight Data Recorder (DFDR)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Digital flight data recorder	01-75GAJ-31GS-00-1			* / /	* / /	
B	Functional check						
B-1	Digital flight data recorder	01-75GAJ-31JG-30-1			* / /	* / /	
C	Fault isolation						
C-1	Digital flight data recorder	01-75GAJ-31FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R digital flight data recorder	01-75GAJ-31JG-30-1			/ /	* / /	
D-2	R&R DFDR beacon battery	01-75GAJ-31JG-30-1			/ /	* / /	

B.14 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **underwater locater beacon** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Underwater locater beacon	01-75GAJ-25GS-00-1			* / /	* / /	
B	Functional check						
B-1	Underwater locater beacon	01-75GAJ-25JG-00-1			/ /	/ /	
C	Fault isolation						
C-1	Underwater locater beacon	01-75GAJ-25FI-00-1			/ /	/ /	
D	Organizational maintenance						
D-1	R&R underwater locater beacon	01-75GAJ-25JG-00-1			/ /	/ /	

B.15 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Emergency Locater Transmitter (ELT)** using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Emergency Locater Transmitter (ELT)	01-75GAJ-25GS-00-1			* / /	* / /	
B	Functional check						
B-1	Emergency Locater Transmitter (ELT)	01-75GAJ-25JG-00-1			/ /	* / /	
C	Fault isolation						
C-1	Emergency Locater Transmitter (ELT)	01-75GAJ-25GS-00-1			/ /	* / /	
D	Organizational maintenance						
D-1	R&R ELT battery	01-75GAJ-25JG-00-1			/ /	* / /	
D-2	R&R ELT antenna	01-75GAJ-25JG-00-1			* / /	* / /	

B.16 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Data Transfer System** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Data transfer system	01-75GAJ-31GS-00-1			* / /	* / /	
B	Functional check						
B-1	Data transfer system	01-75GAJ-31JG-30-1			* / /	* / /	
C	Fault isolation						
C-1	Data transfer system	01-75GAJ-31FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R data transfer unit	01-75GAJ-31JG-30-1			/ /	* / /	
D-2	R&R data transfer system computer connection	01-75GAJ-31JG-30-1			/ /	/ /	

B.17 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Public address system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Public address system	01-75GAJ-23GS-00-1			/ /	* / /	
B	Functional check						
B-1	Public address system	01-75GAJ-23JG-40-1			/ /	* / /	
C	Fault isolation						
C-1	Public address system	01-75GAJ-23FI-00-1			/ /	* / /	
D	Organizational maintenance						
D-1	R&R public address system power amplifier	01-75GAJ-23JG-40-1			/ /	* / /	
D-2	R&R public address system speakers	01-75GAJ-23JG-40-1			/ /	* / /	

B.18 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **intercommunication system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Intercommunication system	01-75GAJ-23GS-00-1			* / /	* / /	
B	Functional check						
B-1	Intercommunication system	01-75GAJ-23JG-50-1			* / /	* / /	

DA B.18 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C	Fault isolation						
C-1	Intercommunication system	01-75GAJ-23FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R control panel	01-75GAJ-23JG-50-1			* / /	* / /	
D-2	R&R monitor panel	01-75GAJ-23JG-50-1			* / /	* / /	
D-3	R&R headset interface unit	01-75GAJ-23JG-50-1			* / /	* / /	
D-4	R&R ICS override panel	01-75GAJ-23JG-50-1			* / /	* / /	
D-5	R&R central switching unit	01-75GAJ-23JG-50-1			* / /	* / /	

B.19 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARC-164, UHF system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/ARC-164 UHF communication system	01-75GAJ-23GS-00-1			* / /	* / /	
B	Functional check						
B-1	AN/ARC-164 UHF communication system	01-75GAJ-23JG-30-1			* / /	* / /	
C	Fault isolation						
C-1	AN/ARC-164 UHF communication system	01-75GAJ-23FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R UHF receiver/transmitter	01-75GAJ-23JG-30-1			* / /	* / /	
D-2	R&R antenna selector	01-75GAJ-23JG-30-1			/ /	* / /	
D-3	R&R UHF/TACAN diplexer	01-75GAJ-23JG-30-1			/ /	* / /	
D-4	R&R UHF RF transfer switch	01-75GAJ-23JG-30-1			/ /	* / /	
D-5	R&R antenna	01-75GAJ-23JG-30-1			/ /	* / /	

B.20 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARC-222, VHF radio system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/ARC-222 VHF radio system	01-75GAJ-23GS-00-1			* / /	* / /	
B	Functional check						
B-1	AN/ARC-222 VHF radio system	01-75GAJ-23JG-20-2			* / /	* / /	
C	Fault isolation						
C-1	AN/ARC-222 VHF radio system	01-75GAJ-23FI-00-1			/ /	* / /	
D	Organizational maintenance						
D-1	R&R receiver transmitter	01-75GAJ-23JG-20-2			* / /	* / /	
D-2	R&R HF coupler	01-75GAJ-23JG-20-2			/ /	* / /	
D-3	R&R antenna logic control unit	01-75GAJ-23JG-20-2			* / /	* / /	

B.21 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARC-190, (HF) System** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/ARC-190 HF high frequency system	01-75GAJ-23GS-00-1			* / /	* / /	
B	Functional check						

DA B.21 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B-1	AN/ARC-190 HF high frequency system	01-75GAJ-23JG-20-1			* / /	* / /	
C	Fault isolation						
C-1	AN/ARC-190 HF high frequency system	01-75GAJ-23FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R HF antenna	01-75GAJ-23JG-20-1			/ /	* / /	
D-2	R&R HF coupler	01-75GAJ-23JG-20-1			/ /	* / /	
D-3	R&R transceiver automatic communications processor	01-75GAJ-23JG-20-1			* / /	* / /	

B.22 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Satellite Communications system (SATCOM)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	USTS (SATCOM)	01-75GAJ-23GS-00-2			* / /	* / /	
B	Functional check						
B-1	USTS (SATCOM)	01-75GAJ-23JG-30-2			* / /	* / /	
C	Fault isolation						
C-1	USTS (SATCOM)	01-75GAJ-23FI-00-2			* / /	* / /	
D	Organizational maintenance						
D-1	R&R interlock relays	01-75GAJ-23JG-30-2			/ /	/ /	

B.23 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **ANDVT secure voice system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Secure voice system	01-75GAJ-23GS-00-1			* / /	* / /	
B	Functional check						
B-1	Secure voice system	01-75GAJ-23JG-90-1			* / /	* / /	
C	Fault isolation						
C-1	Secure voice system	01-75GAJ-23FI-00-2			* / /	* / /	
D	Organizational maintenance						
D-1	R&R ANDVT secure voice components				* / /	* / /	

B.24 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **KY-58 secure voice system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	KY-58 secure voice system	01-75GAJ-23GS-00-1			* / /	* / /	
B	Functional check						
B-1	KY-58 secure voice system	01-75GAJ-23JG-90-1			* / /	* / /	
C	Fault isolation						
C-1	KY-58 secure voice system	01-75GAJ-23FI-00-2			* / /	* / /	
D	Organizational maintenance						
D-1	R&R KY-58 secure voice system				* / /	* / /	

B.25 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **EGI navigation system** using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	INS/GPS with EGI navigation system	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	INS/GPS with EGI navigation system	01-75GAJ-34JG-40-1			* / /	* / /	
C	Fault isolation						
C-1	INS/GPS with EGI navigation system	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R EGI receiver	01-75GAJ-34JG-40-1			* / /	* / /	
D-2	R&R GPS antennas	01-75GAJ-34JG-40-1			/ /	* / /	
D-3	R&R GPS antenna controller	01-75GAJ-34JG-40-1			/ /	* / /	
D-4	R&R EGI battery	01-75GAJ-34JG-40-1			* / /	* / /	

B.26 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARN-147 VHF navigation system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/ARN-147, VOR/ILS.MB navigation system	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	AN/ARN-147, VOR/ILS.MB navigation system	01-75GAJ-34JG-30-1			* / /	* / /	
C	Fault isolation						
C-1	AN/ARN-147, VOR/ILS.MB navigation system	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R AN/ARN-147 receiver	01-75GAJ-34JG-30-1			* / /	* / /	
D-2	R&R marker beacon antenna	01-75GAJ-34JG-30-1			/ /	* / /	
D-3	R&R glide slope antenna	01-75GAJ-34JG-30-1			/ /	* / /	

B.27 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARN-139 (V) TACAN system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/ARN-139 (V) TACAN system	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	AN/ARN-139 (V) TACAN system	01-75GAJ-34JG-50-1			* / /	* / /	
C	Fault isolation						
C-1	AN/ARN-139 (V) TACAN system	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R TACAN receiver transmitter	01-75GAJ-34JG-50-1			* / /	* / /	
D-2	R&R TACAN an/ARN-139 (V) control panel	01-75GAJ-34JG-50-1			/ /	* / /	
D-3	R&R TACAN an/ARN-139 (V) antennas	01-75GAJ-34JG-50-1			/ /	* / /	

B.28 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ARN-153 (V) TACAN system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/ARN-153 (V) TACAN system	01-75GAJ-34GS-00-1			* / /	* / /	

DA B.28 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B	Functional check						
B-1	AN/ARN-153 (V) TACAN system	01-75GAJ-34JG-50-1			* / /	* / /	
C	Fault isolation						
C-1	AN/ARN-153 (V) TACAN system	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R TACAN receiver transmitter	01-75GAJ-34JG-50-1			* / /	* / /	
D-2	R&R TACAN an/ARN-153 (V) antennas	01-75GAJ-34JG-50-1			/ /	* / /	

B.29 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **DF-206A Automatic Directional Finder (ADF) system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	DF-206A, Automatic Directional Finder system	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	DF-206A, Automatic Directional Finder system	01-75GAJ-34JG-50-2			* / /	* / /	
C	Fault isolation						
C-1	DF-206A, Automatic Directional Finder system	01-75GAJ-34FI-00-1			/ /	/ /	
D	Organizational maintenance						
D-1	R&R DF-206 receiver	01-75GAJ-34JG-50-2			* / /	* / /	
D-2	R&R DF-206 antenna	01-75GAJ-34JG-50-2			* / /	* / /	
D-3	R&R AN/ARN-149 mount	01-75GAJ-34JG-50-2			/ /	* / /	

B.30 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **DF-301E UHF–DF system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	DF-301E, directional finder system	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	DF-301E, directional finder system	01-75GAJ-34JG-50-3			* / /	* / /	
C	Fault isolation						
C-1	DF-301E, directional finder system	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R DF-301E antenna/processor	01-75GAJ-34JG-50-3			* / /	* / /	
D-2	R&R DF-301E antenna switch	01-75GAJ-34JG-50-3			/ /	* / /	

B.31 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Low Power Color Radar (LPCR) system** using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	LPCR system	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	LPCR system	01-75GAJ-34JG-40-2			* / /	* / /	

DA B.31 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C	Fault isolation						
C-1	LPCR system	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R LPCR receiver transmitter processor	01-75GAJ-34JG-40-2			* / /	* / /	
D-2	R&R receiver transmitter processor mount	01-75GAJ-34JG-40-2			* / /	* / /	
D-3	R&R receiver transmitter processor replaceable modules	01-75GAJ-34JG-40-2			* / /	* / /	
D-4	R&R LPCR control panel	01-75GAJ-34JG-40-2			/ /	* / /	
D-5	LPCR antenna	01-75GAJ-34JG-40-2			/ /	* / /	

B.32 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **cursor control panel** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Cursor control panel	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	Cursor control panel	01-75GAJ-34JG-00-1			* / /	* / /	
C	Fault isolation						
C-1	Cursor control panel	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R cursor control panel	01-75GAJ-34JG-00-1			/ /	* / /	

B.33 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **digital mapping system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Digital mapping system	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	Digital mapping system	01-75GAJ-34JG-60-1			* / /	* / /	
C	Fault isolation						
C-1	Digital mapping system	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R digital mapping unit	01-75GAJ-34JG-60-1			* / /	* / /	
D-2	Load software	01-75GAJ-34JG-60-1			/ /	* / /	

B.34 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **HG-9550 radar altimeter** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	HG-9550 radar altimeter	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	HG-9550 radar altimeter	01-75GAJ-34JG-10-1			* / /	* / /	
C	Fault isolation						
C-1	HG-9550 radar altimeter	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R radar altimeter components	01-75GAJ-34JG-10-1			/ /	* / /	

B.35 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Enhanced Traffic Collision and Avoidance System (ETCAS)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	ETCAS system	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	ETCAS system	01-75GAJ-34JG-40-3			* / /	* / /	
C	Fault isolation						
C-1	ETCAS system	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R TCAS directional antennas	01-75GAJ-34JG-40-3			/ /	* / /	
D-2	R&R TCAS processor	01-75GAJ-34JG-40-3			/ /	* / /	

B.36 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/APX-100 (V) IFF System** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/APX-100 (V) system	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	AN/APX-100 (V) system	01-75GAJ-34JG-50-3			* / /	* / /	
C	Fault isolation						
C-1	AN/APX-100 (V) system	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R AN/APX 100 receiver/transmitter	01-75GAJ-34JG-50-3			/ /	* / /	

B.37 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Angle of Attack (AOA)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Angle of Attack (AOA) sensor	01-75GAJ-34GS-00-1			* / /	* / /	
B	Functional check						
B-1	Angle of Attack (AOA) sensor	01-75GAJ-34JG-10-1			* / /	* / /	
C	Fault isolation						
C-1	Angle of Attack (AOA) sensor	01-75GAJ-34FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R Angle of Attack (AOA)	01-75GAJ-34JG-10-1			* / /	* / /	

B.38 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **digital autopilot/flight director system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Digital autopilot/flight director system	01-75GAJ-22GS-00-1			* / /	* / /	
B	Functional check						
B-1	Digital autopilot/flight director system	01-75GAJ-22GS-10-1			* / /	* / /	
C	Fault isolation						
C-1	Digital autopilot/flight director system	01-75GAJ-22FI-00-2			/ /	* / /	
D	Organizational maintenance						
D-1	R&R automatic flight control processor	01-75GAJ-22GS-10-1			* / /	* / /	
D-2	R&R automatic flight control panels	01-75GAJ-22GS-10-1			* / /	* / /	
D-3	R&R get home control panel	01-75GAJ-23JG-00-1			* / /	* / /	

B.39 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **defensive systems control panel** using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	Defensive systems control panel	01-75GAJ-99GS-00-1			* / /	* / /	
B	Functional check						
B-1	Defensive systems control panel	01-75GAJ-99JG-10-1			* / /	* / /	
C	Fault isolation						
C-1	Defensive systems control panel	01-75GAJ-99FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R control panel	01-75GAJ-99JG-10-1			/ /	* / /	

B.40 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/AAR-47 MWS** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/AAR-47 MWS	01-75GAJ-93GS-00-1			* / /	* / /	
B	Functional check						
B-1	AN/AAR-47 MWS	01-75GAJ-93JG-00-1			* / /	* / /	
C	Fault isolation						
C-1	AN/AAR-47 MWS	01-75GAJ-93FI-00-1			/ /	* / /	
D	Organizational maintenance						
D-1	R&R MWS central processor	01-75GAJ-93JG-00-1			/ /	* / /	
D-2	R&R MWS sensors	01-75GAJ-93JG-00-1			/ /	* / /	
D-3	R&R MWS sensor filters	01-75GAJ-93JG-00-1			/ /	* / /	

B.41 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ALR-56 RWR** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	AN/ALR-56 RWRS	01-75GAJ-93GS-00-1			* / /	* / /	
B	Functional check						
B-1	AN/ALR-56 RWRS	01-75GAJ-93JG-00-1			* / /	* / /	
C	Fault Isolation						
C-1	AN/ALR-56 RWRS	01-75GAJ-93FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	R&R RWRS superhet receiver	01-75GAJ-93JG-00-1			* / /	* / /	
D-2	R&R RWRS superhet controller	01-75GAJ-93JG-00-1			* / /	* / /	
D-3	R&R DF receiver	01-75GAJ-93JG-00-1			* / /	* / /	
D-4	R&R analysis processor	01-75GAJ-93JG-00-1			* / /	* / /	
D-5	R&R C/D RCVR/PWR supply	01-75GAJ-93JG-00-1			* / /	* / /	
D-6	R&R C/D antenna array	01-75GAJ-93JG-00-1			* / /	* / /	
D-7	R&R interference blanker unit	01-75GAJ-93JG-00-1			* / /	* / /	
D-8	R&R AN/ALR-56 RWRS fwd E-J antenna	01-75GAJ-93JG-00-1			/ /	/ /	
D-9	R&R AN/ALR-56 RWRS aft E-J antenna	01-75GAJ-93JG-00-1			/ /	/ /	
D-10	R&R fwd AN/ALR-56 DF receiver	01-75GAJ-93JG-00-1			/ /	/ /	
D-11	R&R aft AN/ALR-56 DF receiver	01-75GAJ-93JG-00-1			/ /	/ /	

B.42 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ALQ-157 IRCM** using appropriate maintenance procedures and support/test equipment.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Theory of operation						
A-1	ICRM IRAN/AAR-47 MWS	01-75GAJ-99GS-00-1			* / /	* / /	
B	Functional check						
B-1	ICRM IR	01-75GAJ-99JG-10-1			* / /	* / /	
C	Fault isolation						
C-1	ICRM IR	01-75GAJ-99FI-00-1			/ /	* / /	
D	Organizational maintenance						
D-1	R&R ICRM IR transmitter	01-75GAJ-99JG-10-1			* / /	* / /	
D-2	R&R ICRM IR Control Power Supply (CPS)	01-75GAJ-99JG-10-1			/ /	/ /	
D-3	R&R ICRM EMI line filter	01-75GAJ-99JG-10-1			/ /	/ /	
D-4	R&R ICRM IR transmitter air filter	01-75GAJ-99JG-10-1			/ /	/ /	
D-5	R&R ICRM IR transmitter cover assembly	01-75GAJ-99JG-10-1			/ /	/ /	
D-6	R&R defensive system control panel	01-75GAJ-99JG-10-1			/ /	/ /	

B.43 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **AN/ALE-47 CMDS** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	CMDS	01-75GAJ-99GS-00-1			* / /	* / /	
B	Functional check						
B-1	CMDS	01-75GAJ-99JG-10-1			* / /	* / /	
C	Fault isolation						
C-1	CMDS	01-75GAJ-99FI-00-1			* / /	* / /	
D	Organizational maintenance						
D-1	Load and verify program procedures for AN/ALE-47 programmer	01-75GAJ-99JG-10-1			* / /	* / /	
D-2	R&R CMDS programmer	01-75GAJ-99JG-10-1			/ /	/ /	
D-3	R&R CMDS dispenser	01-75GAJ-99JG-10-1			/ /	/ /	
D-4	R&R CMDS sequencer	01-75GAJ-99JG-10-1			/ /	/ /	
D-5	R&R CMDS remote dispenser switch	01-75GAJ-99JG-10-1			/ /	/ /	
D-6	R&R CMDS safety switches	01-75GAJ-99JG-10-1			* / /	* / /	
D-7	R&R HUD	01-75GAJ-99JG-10-1			* / /	* / /	

APPENDIX A

INDIVIDUAL EXPERIENCE DATA SHEET

INDIVIDUAL DATA

NAME: _____

SSN: _____

FORMAL SCHOOLS

SCHOOLS NAME	DATE COMPLETED

UNIT EXPERIENCE DATA

UNIT	SHOP	BILLET	FROM/TO DATES

COMMENTS:

_____

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APPENDIX C

WORK CENTER SUMMARY
AIRCRAFT COMMUNICATIONS/NAVIGATION SYSTEMS TECHNICIAN (MOS 6316)

WORK CENTER NAME/NUMBER _____

NAME/MOS	LEVEL	A.1	A.2	A.3	A.4	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	B.9	B.10	B.11	B.12	B.13
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DATE: May 2003

APPENDIX C

WORK CENTER SUMMARY
AIRCRAFT COMMUNICATIONS/NAVIGATION SYSTEMS TECHNICIAN (MOS 6316)

WORK CENTER NAME/NUMBER _____

NAME/MOS	LEVEL	B.14	B.15	B.16	B.17	B.18	B.19	B.20	B.21	B.22	B.23	B.24	B.25	B.26	B.27	B.28	B.29	B.30
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APPENDIX C

WORK CENTER SUMMARY
AIRCRAFT COMMUNICATIONS/NAVIGATION SYSTEMS TECHNICIAN (MOS 6316)

WORK CENTER NAME/NUMBER _____

NAME/MOS	LEVEL	B.31	B.32	B.33	B.34	B.35	B.36	B.37	B.38	B.39	B.40	B.41	B.42	B.43
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APPENDIX D

SUPPORT EQUIPMENT LICENSING RECORD

SUPPORT EQUIPMENT NOMENCLATURE	REFERENCE	PHASE I	PHASE II	LICENSED	EXPIRATION

NAME/SSN _____ RANK _____ MOS _____ DATE: May 2003