DUTY AREA
HELICOPTER MECHANIC/CREWCHIEF (MOS 6112/6172)

A. GENERAL, OPERATING AND SAFETY DUTIES

1. Operates and maintains applicable shop **Support/special equipment**.
2. Demonstrates/applies applicable **Safety precautions and procedures around the helicopter and work center**.
   (# Reference applicable to HH-46D (SR&M) only)
3. Demonstrates/applies knowledge of applicable **Helicopter publications, diagrams, sketches and drawings**.
   (# Reference applicable to HH-46D (SR&M) only)
4. Performs tasks on the helicopter using applicable **Precision measuring equipment**.
5. Directs aircraft **Ground taxiing**.
6. Demonstrates/applies knowledge of **Ground handling procedures** for helicopters.
7. Performs **Aircraft refueling/defueling**.
8. Demonstrates/applies knowledge of **Helicopter servicing**.
9. Demonstrates/applies knowledge of helicopter **Test equipment**.
10. Demonstrates/applies knowledge of **Aircraft mission configuration and procedures**.

B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES

1. Performs **Scheduled/unscheduled inspections** on applicable systems/components as per Maintenance Requirement Cards.
2. Incorporates applicable **Technical Directives changes/bulletins**.
3. Detects corrosion and performs **Corrosion control**.
4. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Fuel systems** using appropriate maintenance procedures and support/test equipment.
5. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Flight control systems** using appropriate maintenance procedures and support/test equipment.
6. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Rotor systems** using appropriate maintenance procedures and support/test equipment.
7. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Drive systems** using appropriate maintenance procedures and support/test equipment.
8. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Utility systems & equipment** using appropriate maintenance procedures and support/test equipment.
9. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Auxiliary power unit (APU)** using appropriate maintenance procedures and support/test equipment.
10. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Power plant systems** using appropriate maintenance procedures and support/test equipment.
11. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Power plant systems** using appropriate maintenance procedures and support/test equipment. (Applicable to HH-46D (SR&M))
12. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Utility hydraulic systems** using appropriate maintenance procedures and support/test equipment.

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13. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Flight boost systems** using appropriate maintenance procedures and support/test equipment.
14. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Landing gear systems** using appropriate maintenance procedures and support/test equipment.
15. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **Electrical systems** 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. (NOTE: NO ENTRY LEVEL SCHOOL THIS MOS)

LEVEL II: An asterisk in Level II indicates the task is taught at NAMTRA MARUNIT/ “C” school. Other task in Level II not indicated with an asterisk will be signed off when exposed to the individual for the first time. All subsequent training in 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 supervision. The unit is responsible for these sign-offs.

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 task in level III must be signed-off. Only one sign-off for the duty area is required.

Sign-off blanks: (MO/YR)/(INDIVIDUAL’S INITIALS)/(SUPERVISOR’S INITIALS)

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

INDIVIDUAL DUTY AREA QUALIFICATION SUMMARY
HELICOPTER MECHANIC/CREWCHIEF (MOS 6112/6172)

NAME/SSN _____

Granted MOS 6111/72 _____/_____ Level II Completed _____/_____
Granted MOS 6112/72 _____/_____ 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		XXXX

INDIVIDUAL QUALIFICATION RECORD
HELICOPTER MECHANIC/CREWCHIEF (MOS 6112/6172)

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-2, B-4 & B-5A	NA 19-600-19-6-1		* / /	* / /	
B	Bomb hoist	NA 19-600-98-6-1		* / /	* / /	

A.2 Demonstrates/applies applicable **Safety precautions and procedures around the helicopter and work center**. (# Reference applicable to HH-46D (SR&M))

A	Ground occupational safety & health programs in specific areas.					
A-1	Hazardous material	OPNAVINST 4790.2 OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1 DOD 4140.27-M Local Instr	*	* / /	* / /	
A-2	Safety procedures near electricity	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1 Local Instr	*	* / /	* / /	
A-3	Composite material safety	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1		/ /	/ /	
A-4	Personal protective equipment (safety/flight boots, clothing, hearing/eye protection, etc.)	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1	*	* / /	* / /	
A-5	Safety markings	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1 Local Instr		/ /	/ /	
B	Precautions & procedures on/around helicopters & support equipment					
B-1	Safety procedures on/around turning helicopter	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1 Local Instr		* / /	* / /	
B-2	Safety procedures on/near helicopter when applying or removing electrical power	A1-H46AE-GAI-000 Local Instr	*	* / /	* / /	
B-3	Safety procedures on/near helicopter with use of hydraulic power	A1-H46AE-GAI-000 Local Instr		* / /	* / /	

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DA A.2 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
B-4	Safety procedures on/near helicopter with ordnance	A1-H46AE-GAI-000 Local Instr		* / /	* / /	
B-5	Safety procedures when jacking helicopter or while helicopter is on jacks	A1-H46AE-GAI-000 Local Instr		* / /	* / /	
C	Line emergency procedures					
C-1	Types of fire extinguishers	OSHA 29 CFR 1910 NAVAIR A1-NAOSH-SAF-000/P5100-1	*	* / /	* / /	
C-1.1	CO2	OSHA 29 CFR 1910	*	* / /	* / /	
C-1.2	PKP	OSHA 29 CFR 1910	*	* / /	* / /	
C-1.3	Halon	OSHA 29 CFR 1910	*	* / /	* / /	
C-2	Fire fighting			/ /	/ /	
C-2.1	Proper extinguishing for rotor brake fire	A1-H46AE-GAI-000		/ /	* / /	
C-2.2	Proper extinguishing for engine fire	A1-H46AE-GAI-000		* / /	* / /	
C-2.3	Proper extinguishing for APU fire	A1-H46AE-GAI-000		* / /	* / /	
D	Search and Rescue (SAR) Requirements					
D-1	Safety precautions around loudhailer system	A1-H46AE-400-000# Local Instr		/ /	* / /	
D-2	Safety precautions around night sun search light	Local Instr#		/ /	* / /	

A.3 Demonstrates/applies knowledge of applicable **Helicopter publications, diagrams, sketches and drawings**. (# Reference applicable to HH-46D (SR&M))

A	Naval Aviation Maintenance Program, (NAMP)	OPNAVINST 4790.2 series		* / /	* / /	
B	MIMS W/IPB					
C	NAVAIR Manuals					
D	Work Unit Code Manual	NA 01-25OHD-8	*	* / /	* / /	
E	Numerical Index Manual	A1-H46AE-IDX-000		/ /	/ /	
F	NATOPS Manual (6172)					
F-1	NATOPS Flight Manual	A1-H46AE NFM-000 A1-H46ED-NFM-000#		* / /	* / /	
F-2	Crewchiefs Pocket Checklist	A1-H46AE NFM-900 A1-H46ED-NFM-900#		* / /	* / /	

A.4 Performs tasks on the helicopter using applicable **Precision measuring equipment**.

A	Operates dial indicator	A1-H46AE-150-000		/ /	* / /	
B	Operates feeler gauges	A1-H46AE-150-000		* / /	* / /	
C	Operates fish scale	A1-H46AE-150-000		/ /	* / /	

DA A.4 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D	Operates depth micrometer	A1-H46AE-150-000		/ /	* / /	
E	Operates torque wrenches	A1-H46AE-GAI-000	*	* / /	* / /	
F	Operates cable tensiometer	A1-H46AE-140-000		* / /	* / /	
G	Power Dyne TQ Multiplier	A1-H46AE-140-000		* / /	* / /	

A.5 Directs aircraft **Ground taxiing**.

A	Performs hand signals during launch or recovery	A1-H46AE-NFM-000-GAI		* / /	* / /	
B	Performs hand signals during day or night	A1-H46AE-NFM-000-GAI		* / /	* / /	

A.6 Demonstrates/applies knowledge of **Ground handling procedures** for helicopters.

A	Wheel brake dragging procedures	A1-H46AE-NFM-000		/ /	* / /	
B	Brake riding procedures	Local Instr		/ /	* / /	
C	Secures aircraft	A1-H46AE-GAI-000		* / /	* / /	

A.7 Performs **Aircraft refueling/defueling**.

A	Refuels helicopter/internal tanks	A1-H46AE-GAI-000		* / /	* / /	
B	Defuels helicopter/internal tanks	A1-H46AE-GAI-000		* / /	* / /	

A.8 Demonstrates/applies knowledge of **Helicopter servicing**.

A	Transmission servicing					
A-1	Forward transmission	A1-H46AE-GAI-000		* / /	* / /	
A-2	Aft transmission	A1-H46AE-GAI-000		* / /	* / /	
B	Engine servicing	A1-H46AE-GAI-000		* / /	* / /	
C	APU servicing	A1-H46AE-GAI-000		* / /	* / /	
D	Rotorhead servicing					
D-1	Pitchvarying arm reservoir	A1-H46AE-GAI-000		* / /	* / /	
D-2	Horizontal hinge pin reservoir	A1-H46AE-GAI-000		* / /	* / /	
D-3	Vertical hinge pin reservoir	A1-H46AE-GAI-000		* / /	* / /	
D-4	Lead/lag dampener (shock absorber)	A1-H46AE-GAI-000		* / /	* / /	

DA A.8 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
E	Flight control boost					
E-1	Boost #1 reservoir	A1-H46AE-GAI-000		* / /	* / /	
E-2	Boost #2 reservoir	A1-H46AE-GAI-000		* / /	* / /	
F	Utility hydraulic system					
F-1	Utility reservoir	A1-H46AE-GAI-000		* / /	/ /	

A.9 Demonstrate/applies knowledge of helicopter **Test equipment**.

A	Operates H-219 (Engine Trim Checker)	A1-H46AE-220-010 A1-H46AC-220-000#		/ /	* / /	
C	Operates Vibrex Equipment 8500	A1-H46AE-VAM-000		/ /	* / /	
C-1	Installation of gear	A1-H46AE-VAM-000		/ /	* / /	

A.10 Demonstrates/applies knowledge of **Aircraft mission configuration and procedures**.

A	Configures aircraft for MEDVAC	A1-H46AE-GAI-000 A1-H46AE-NFM-000		* / /	* / /	
B	Internal cargo loading	A1-H46AE-CGL-000 A1-H46AE-NFM-000		* / /	* / /	
C	External cargo loading	A1-H46AE-CGL-000 A1-H46AE-NFM-000		* / /	* / /	
D	Search and Rescue (SAR)					
D-1	External rescue hoist operation	A1-H46AE-NFM-000		/ /	* / /	
D-2	Internal winch assembly			/ /	* / /	
D-2.1	Rigs cable cutter	A1-H46AE-NFM-000		/ /	* / /	
D-2.2	Hoisting thru hell-hole	A1-H46AE-NFM-000		/ /	* / /	
D-2.3	Hoisting over ramp, cargo/rescue operations	A1-H46AE-NFM-000		/ /	* / /	
E	Troop lift	A1-H46AE-CGL-000		/ /	* / /	
F	Armament	A1-H46AE-GAI-000		/ /	* / /	
G	Fast-rope	A1-H46AE-GAI-000		/ /	* / /	

INDIVIDUAL QUALIFICATION RECORD
HELICOPTER MECHANIC/CREWCHIEF (MOS 6112/6172)

B. SCHEDULED AND UNSCHEDULED MAINTENANCE DUTIES

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

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL 1	LEVEL II	LEVEL III	LEVEL IV
A	Periodic Maintenance Information Cards	A1-H46AE-MRC-000		*	* / /	* / /	
B	Turnaround Checklist Requirement Cards	A1-H46AE-MRC-100		*	* / /	* / /	
C	Daily Servicing Cards	A1-H46AE-MRC-300		*	* / /	* / /	
D	Special/Preservation/ASPA/ Conditional Requirement Cards	A1-H46AE-MRC-350		*	* / /	* / /	
E	Phase Maintenance Requirement Cards						
E-1	Performs “A” phase inspection	A1-H46AE-MRC-400			* / /	* / /	
E-2	Performs “B” phase inspection	A1-H46AE-MRC-400			* / /	* / /	
E-3	Performs “C” phase inspection	A1-H46AE-MRC-400			* / /	* / /	
E-4	Performs “D” phase inspection	A1-H46AE-MRC-400			* / /	* / /	
F	Performs special 300-hr engine inspection	A1-H46AE-MRC-350			* / /	* / /	
G	Performs special 600-hr engine inspection	A1-H46AE-MRC-350			* / /	* / /	
H	Performs 30-hr oil sample (engine & gear box)	A1-H46AE-MRC-350			* / /	* / /	
I	Performs 25/50-hour inspection	A1-H46AE-MRC-350			* / /	* / /	
J	Performs 7-day inspection	A1-H46AE-MRC-350			* / /	* / /	
K	Performs 14-day inspection	A1-H46AE-MRC-350			* / /	* / /	
L	Performs 28-day inspection	A1-H46AE-MRC-350			* / /	* / /	
M	Performs preservation inspection	A1-H46AE-MRC-350			* / /	* / /	
N	Performs de-preservation inspection	A1-H46AE-MRC-350			/ /	/ /	
O	Performs gear box serviceability check	A1-H46AE-260-000			/ /	* / /	
P	Performs acceptance/transfer inspections	OPNAVINST 4790.2			/ /	* / /	

B.2 Incorporates applicable **Technical Directives changes/ bulletins**.

A	Technical Directives System	NAVAIR 00-25-300			/ /	* / /	
B	Rapid Action Minor Engineering Change (RAMEC) Proposals	NAVAIRINST 5215.10			/ /	* / /	
C	Incorporates Technical Directives changes/bulletins	OPNAVINST 4790.2			/ /	* / /	

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B.3 Detects corrosion and performs **Corrosion control**.

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Performs corrosion detection during all maintenance actions	NA 01-1A-509 A1-H46AE-SRM-200			* / /	* / /	
B	Performs corrective action on corrosion discrepancies	NA 01-1A-509 A1-H46AE-SRM-200			/ /	* / /	
C	Performs corrosion prevention during daily/turnaround/special inspection	NA 01-1A-509 A1-H46AE-SRM-200			* / /	* / /	
D	Performs corrosion detection/ prevention on support equipment	NA 17-1-125			/ /	* / /	

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

A	Theory of operation						
A-1	Fuel systems	A1-H46AE-220-010			* / /	* / /	
B	Functional check						
B-1	Fuel systems	A1-H46AE-220-010			/ /	* / /	
C	Fault isolation						
C-1	Fuel system	A1-H46AE-220-010	46000		/ /	* / /	
D	Organizational maintenance (6112)						
D-1	R&R fuel cell	A1-H46AE-220-010	4624B		/ /	/ /	
D-2	R&R sump drain valve	A1-H46AE-220-010	46246		/ /	/ /	
D-3	R&R selector valve	A1-H46AE-220-010	4621450		/ /	* / /	
D-4	R&R airframes fuel filter	A1-H46AE-220-010	4621470		/ /	* / /	
D-5	R&R fuel boost pump	A1-H46AE-220-010	4624830		/ /	* / /	
D-6	R&R fuel pressure switch	A1-H46AE-220-010	46R10		/ /	* / /	
D-7	R&R fuel lines	A1-H46AE-220-010	46R10		/ /	* / /	
D-8	Fuel Sampling Procedures (6172)	NAMP/NAVAIR/LOI			* / /	* / /	
D-9	Airframes fuel filter bypass indicator reset procedures	A1-H46AE-MRC-300	4621470		* / /	/ /	

B.5 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Flight control systems** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Flight control systems	A1-H46AE-140-000			* / /	* / /	
B	Functional check						
B-1	Flight control systems	A1-H46AE-140-000			/ /	* / /	
C	Fault isolation						
C-1	Flight control systems	A1-H46AE-140-000	14000		/ /	* / /	

DA B.5 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D	Organizational maintenance (6112)						
D-1	Cockpit flight controls				/ /	/ /	
D-1.1	R&R viscous dampener	A1-H46AE-140-000	1431690		/ /	/ /	
D-1.2	R&R pedal positioner	A1-H46AE-140-000	14316D4		/ /	* / /	
D-1.3	R&R push-pull rods/bellcrank	A1-H46AE-140-000	14310		/ /	/ /	
D-2	Flight controls closet				/ /	/ /	
D-2.1	R&R mixing unit	A1-H46AE-140-000	1432G00		/ /	/ /	
D-2.2	R&R centering springs	A1-H46AE-140-000	1432110		/ /	* / /	
D-3	Fwd & aft upper controls				/ /	/ /	
D-3.1	R&R yoke/attaching parts	A1-H46AE-140-000	1435H		/ /	* / /	
D-3.2	R&R yoke supports	A1-H46AE-140-000	1433A		/ /	* / /	
D-3.3	R&R longitudinal rigid link	A1-H46AE-140-000	14333		/ /	* / /	
D-3.4	R&R longitudinal differential bellcrank	A1-H46AE-140-000	14335		/ /	* / /	
D-3.5	R&R lateral input bellcrank	A1-H46AE-140-000	14337		/ /	* / /	
D-3.6	R&R lateral rigid link	A1-H46AE-140-000	14331		/ /	* / /	
D-3.7	R&R lateral differential bellcrank	A1-H46AE-140-000	14332		/ /	* / /	
D-3.8	R&R lateral adjustable link	A1-H46AE-140-000	1435B		/ /	* / /	
D-4	Control cables				/ /	/ /	
D-4.1	R&R flight control cables	A1-H46AE-140-000	14341		/ /	* / /	
D-4.2	R&R push-pull rods/bellcrank	A1-H46AE-140-000	14340		/ /	* / /	

B.6 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Rotor systems** using appropriate maintenance procedures and support/ test equipment.

A	Theory of operation						
A-1	Rotor systems	A1-H46AE-150-000			* / /	* / /	
B	Functional check						
B-1	Rotor systems	A1-H46AE-150-000			/ /	* / /	
C	Fault isolation						
C-1	Rotor systems	A1-H46AE-150-000	15000		/ /	* / /	
D	Organizational maintenance (6112)						
D-1	Rotor systems				/ /	/ /	
D-1.1	R&R slider scissors	A1-H46AE-150-000	1519200		/ /	* / /	
D-1.2	R&R swashplate	A1-H46AE-150-000	1519300		/ /	* / /	
D-1.3	R&R drive scissors	A1-H46AE-150-000	1519100		/ /	* / /	
D-1.4	R&R pitch links/bearings	A1-H46AE-150-000	1519340		* / /	* / /	
D-1.5	Striker tab adjust	A1-H46AE-150-000	15299		/ /	* / /	
D-2	Rotor head				/ /	/ /	
D-2.1	R&R rotor head	A1-H46AE-150-000	15120		* / /	* / /	
D-2.2	R&R rotor blades	A1-H46AE-150-000	15110		* / /	* / /	
D-2.3	R&R gear & absorber	A1-H46AE-150-000	15312		/ /	/ /	
D-2.4	R&R pitch varying arm/seals	A1-H46AE-150-000	1513400		* / /	* / /	
D-2.5	R&R shock absorber	A1-H46AE-150-000	15320		/ /	* / /	

DA B.6 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-2.6	R&R droop/flap restrainer	A1-H46AE-150-000	15140		/ /	* / /	
D-2.7	R&R blade fold linkage	A1-H46AE-150-000	15121		/ /	/ /	
D-3	Phase rotor system	A1-H46AE-150-000	26000		* / /	* / /	
E	Organizational maintenance						
E-1	Track rotors/vib checks (6172)				/ /	/ /	
E-1.1	Perform DCC-81 Track & Balance	DCC-81	15110		/ /	* / /	
E-1.2	Make pitchlink adjustments	A1-H46AE-150-200	1519340		/ /	* / /	
E-1.3	Make trim tab adjustments	A1-H46AE-150-200	15110		/ /	* / /	
E-2	Balance rotors				/ /	/ /	
E-2.1	Weighing of rotor blades (teetering)	DCC-81	15110		/ /	* / /	
E-2.2	Make blade/cord weight adjustments	A1-H46AE-150-200	15111		/ /	* / /	
E-3	Make crosswind adjustments	A1-H46AE-150-200	1519340		/ /	* / /	
E-4	Make auto-turns adjustments	A1-H46AE-150-200	1519340		/ /	* / /	
E-5	Perform 100 hr vib check	A1-H46AE-VAM-000			/ /	* / /	
F	Describes rotor limitations (6172)	A1-H46AE-NFM-000			* / /	* / /	

B.7 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Drive systems** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Drive systems	A1-H46AE-260-000			* / /	* / /	
B	Functional check						
B-1	Drive systems	A1-H46AE-260-000			/ /	/ /	
C	Fault isolation						
C-1	Drive systems	A1-H46AE-260-000	26000		/ /	* / /	
D	Organizational maintenance (6112)						
D-1	Drive systems				/ /	/ /	
D-1.1	R&R engine drive shaft/adapter	A1-H46AE-260-000	26B21		/ /	* / /	
D-2	Aft transmission assembly				/ /	/ /	
D-2.1	R&R accessory drive gearbox	A1-H46AE-260-000	26E24		/ /	* / /	
D-2.2	R&R garlock seal	A1-H46AE-260-000	26E20		/ /	* / /	
D-2.3	R&R aft transmission	A1-H46AE-260-000	26E20		* / /	* / /	
D-3	R&R aft rotor drive shaft	A1-H46AE-260-000	26C10		/ /	* / /	
D-4	Synchronized shaft assembly				/ /	/ /	
D-4.1	R&R Synchronized shaft (1-5)	A1-H46AE-260-000	26A30		* / /	* / /	
D-4.2	R&R flexible plates	A1-H46AE-260-000	26A32		/ /	* / /	
D-4.3	R&R lord mounts	A1-H46AE-260-000	26A37		* / /	* / /	
D-5	Fwd transmission assembly				/ /	/ /	
D-5.1	R&R fwd transmission	A1-H46AE-260-000	26A11		/ /	* / /	
D-6	Transmission lube system				/ /	/ /	
D-6.1	R&R filters (fwd/aft)	A1-H46AE-260-000	26A1800		* / /	* / /	
D-6.2	R&R lube lines	A1-H46AE-260-000	26D10		/ /	/ /	

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DA B.7 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-6.3	R&R blower drive shaft assembly	A1-H46AE-260-000	26B10		/ /	* / /	
D-6.4	R&R transmission oil cooler	A1-H46AE-260-000	26D11		/ /	/ /	
D-6.5	Fwd/aft lube pump-filter bypass indicator reset procedure	A1-H46AE-260-000	26A1800		* / /	* / /	
D-6.6	Fwd/aft oil pressure adjustments	A1-H46AE-260-000	26A1800		/ /	* / /	
E	Drive system limitations/test procedures (6172)						
E-1	Transmission oil pressure	A1-H46AE-NFM-000			* / /	* / /	
E-2	Transmission oil temperature	A1-H46AE-NFM-000			* / /	* / /	
E-3	Perform VIB's for engine drive shafts and mix box	A1-H46AE-VMA-000	16E10		* / /	* / /	

B.8 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Utility systems & equipment** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Utility systems & equipment	A1-H46AE-400-000			* / /	* / /	
B	Functional check						
B-1	Utility systems & equipment	A1-H46AE-400-000			/ /	* / /	
C	Fault isolation						
C-1	Utility systems & equipment	A1-H46AE-400-000			/ /	* / /	
D	Organizational maintenance (6112)						
D-1	Hook/beam assembly				/ /	/ /	
D-1.1	R&R hook/beam assembly	A1-H46AE-400-000	4962400		/ /	* / /	
D-1.2	R&R cables & conduits	A1-H46AE-400-000	4962420		/ /	/ /	
D-1.3	Hook & beam rigging	A1-H46AE-400-000	4962400		/ /	* / /	
D-2	Cargo winch				/ /	/ /	
D-2.1	R&R cargo winch	A1-H46AE-400-000	12310		/ /	/ /	
D-2.2	R&R winch cable	A1-H46AE-400-000	4964110		/ /	/ /	
D-3	External rescue hoist				/ /	/ /	
D-3.1	R&R external rescue hoist	A1-H46AE-400-000	49610		/ /	/ /	
D-3.2	R&R external hoist cable	A1-H46AE-400-000	49619		/ /	/ /	
D-4	Heater assembly				/ /	/ /	
D-4.1	R&R plenum assembly	A1-H46AE-400-000	4131840		/ /	/ /	
D-4.2	R&R blower motor	A1-H46AE-400-000	4131850		/ /	* / /	
D-4.3	R&R differential air pressure switch	A1-H46AE-400-000	4131860		/ /	/ /	
D-4.4	R&R fuel/ignition system	A1-H46AE-400-000	4131890		/ /	* / /	
D-4.5	R&R heater unit/shroud	A1-H46AE-400-000	4131800		/ /	* / /	
D-5	Windshield wiper				/ /	/ /	
D-5.1	R&R wiper blade	A1-H46AE-400-000	48121		/ /	* / /	
D-5.2	R&R wiper arm	A1-H46AE-400-000	48122		/ /	* / /	
D-5.3	R&R wiper motor	A1-H46AE-400-000	4812400		/ /	* / /	
D-5.4	R&R converter	A1-H46AE-400-000	4812400		/ /	* / /	

DA B.8 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
E	Describe limitations (6172)						
E-1	Hook and beam load weight	A1-H46AE-NFM-000			* / /	* / /	
E-2	Rescue hoist load weight	A1-H46AE-NFM-000			* / /	* / /	
E-3	Cargo winch load weight	A1-H46AE-NFM-000			* / /	* / /	

B.9 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Auxiliary Power Unit (APU)** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Auxiliary power unit (APU)	NA 19-105B-20 NA 19-105B-22			* / /	* / /	
B	Functional check						
B-1	Auxiliary power unit (APU)	NA 19-105B-20 NA 19-105B-22			* / /	* / /	
C	Fault isolation						
C-1	Auxiliary power unit (APU)	NA 19-105B-20 NA 19-105B-22	24A10		* / /	* / /	
D	Organizational maintenance						
D-1	R&R auxiliary power unit (APU)	NA 19-105B-20 NA 19-105B-22	24A10		/ /	* / /	
D-2	R&R purge valve	NA 19-105B-20 NA 19-105B-22			/ /	* / /	
D-3	R&R thermal switch	NA 19-105B-20 NA 19-105B-22			/ /	* / /	
D-4	R&R overspeed switch	NA 19-105B-20 NA 19-105B-22			/ /	* / /	
D-5	R&R igniter	NA 19-105B-20 NA 19-105B-22			/ /	* / /	
D-6	R&R igniter box	NA 19-105B-20 NA 19-105B-22			/ /	* / /	
D-7	R&R oil pressure switch	NA 19-105B-20 NA 19-105B-22			/ /	* / /	
D-8	R&R oil filter	NA 19-105B-20 NA 19-105B-22			/ /	* / /	
D-9	R&R fuel control	NA 19-105B-20 NA 19-105B-22	24A1130		/ /	* / /	
D-10	R&R fuel filter	NA 19-105B-20 NA 19-105B-22	24A1133		/ /	* / /	
D-11	R&R fuel pump	NA 19-105B-20 NA 19-105B-22	24A1131		/ /	* / /	
D-12	R&R run/start fuel switches	NA 19-105B-20 NA 19-105B-22			/ /	* / /	

B.10 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Power plant 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	Power plant systems	A1-H46AE-220-010 NA 02B-105AHE-6			* / /	* / /	
B	Functional check						
B-1	Power plant systems	A1-H46AE-220-010 NA 02B-105AHE-6			* / /	* / /	
C	Fault Isolation						
C-1	Power plant systems	A1-H46AE-220-010 NA 02B-105AHE-6	29000		/ /	* / /	
D	Organizational maintenance (6112)						
D-1	R&R engines (LH/RH)	A1-H46AE-220-010	29D90		* / /	* / /	
D-2	R&R emergency throttle actuator	A1-H46AE-220-010	29Q1C10		/ /	* / /	
D-3	R&R topping cable	A1-H46AE-220-010	29R10		* / /	* / /	
D-4	R&R fuel flow divider	A1-H46AE-220-010 NA 02B-105AHE-4	2246B		/ /	* / /	
D-5	R&R fuel control	A1-H46AE-220-010 NA 02B-105AHE-4	22462		/ /	* / /	
D-6	R&R lube pump	A1-H46AE-220-010 NA 02B-105AHE-4	22471		/ /	* / /	
D-7	R&R oil tank & hardware	A1-H46AE-220-010 NA 02B-105AHE-4	29D9710		/ /	* / /	
D-8	R&R engine mounts	A1-H46AE-220-010 NA 02B-105AHE-4	29D90		/ /	* / /	
D-9	R&R fuel pump filter	A1-H46AE-220-010 NA 02B-105AHE-4	2246C		/ /	* / /	
D-10	R&R fuel static filter	A1-H46AE-220-010 NA 02B-105AHE-4	2246C		* / /	* / /	
D-11	R&R fuel control filter	A1-H46AE-220-010 NA 02B-105AHE-4	2246G		* / /	* / /	
D-12	R&R oil filter/check valve	A1-H46AE-220-010 NA 02B-105AHE-4	22477		* / /	* / /	
D-13	R&R flex shaft	A1-H46AE-220-010 NA 02B-105AHE-4	2243640		* / /	* / /	
D-14	R&R scavenge strain & filter	A1-H46AE-220-010 NA 02B-105AHE-4	2243600		* / /	* / /	
D-15	R&R magnetic plugs	A1-H46AE-220-010 NA 02B-105AHE-4	29D9110		* / /	* / /	
D-16	R&R EAPS intakes	A1-H46AE-220-010	29D910		/ /	* / /	
E	Organizational maintenance (6172)						
E-1	Fuel setting adjustments				/ /	/ /	
E-1.1	Adjust fuel flow divider	A1-H46AE-220-010	2246B		* / /	* / /	
E-2	Adjust fuel density	A1-H46AE-220-010			* / /	* / /	
E-3	High speed shaft rotation	A1-H46AE-220-010			/ /	* / /	
E-4	Engine set-up				/ /	/ /	

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DA B.10 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
E-4.1	Set up zero torque	A1-H46AE-220-010			/ /	/ /	
E-4.2	Set up lower NF	A1-H46AE-220-010			/ /	* / /	
E-4.3	Set up topping	A1-H46AE-220-010			/ /	* / /	
E-4.4	Set up upper NF	A1-H46AE-220-010			/ /	* / /	
E-4.5	Set up load share	A1-H46AE-220-010			/ /	* / /	
E-4.6	Set up ground idle	A1-H46AE-220-010			/ /	* / /	
E-4.7	Set T5 limiting	A1-H46AE-220-010			/ /	* / /	
E-5	Engine verification checks				/ /	/ /	
E-5.1	Perform single point check	A1-H46AE-MRC-350			/ /	* / /	
E-5.2	Perform four point check	A1-H46AE-MRC-350			/ /	* / /	
E-5.3	Engine VIB's	A1-H46AE-220-010			/ /	* / /	
F	Limitations (6172)						
F-1	Gas generator speed (Ng)	A1-H46AE-NFM-000 A1-H46AE-NFM-900			* / /	* / /	
F-2	Power turbine speed (Nf)	A1-H46AE-NFM-000 A1-H46AE-NFM-900			* / /	* / /	
F-3	Engine torque	A1-H46AE-NFM-000 A1-H46AE-NFM-900			* / /	* / /	
F-4	Oil pressure	A1-H46AE-NFM-000 A1-H46AE-NFM-900			* / /	* / /	
F-5	Turbine inlet temperature (T5)	A1-H46AE-NFM-000 A1-H46AE-NFM-900			* / /	* / /	

B.11 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Power plant systems** using appropriate maintenance procedures and support/test equipment. (Applicable to HH-46D (SR&M))

A	Theory of operation						
A-1	Power plant systems	A1-H46AE-220-000 NA 02B-105AHC-6			/ /	* / /	
B	Functional check						
B-1	Power plant systems	A1-H46AE-220-000 NA 02B-105AHC-6			/ /	* / /	
C	Fault isolation						
C-1	Power plant systems	A1-H46AE-220-000 NA 02B-105AHC-6	29000		/ /	* / /	
D	Organizational maintenance (6112)						
D-1	R&R engines (LH/RH)	A1-H46AE-220-000 NA 02B-105AHC-6	29D90		/ /	* / /	
D-2	R&R emergency throttle actuator	A1-H46AE-220-000 NA 02B-105AHC-6	29Q1C10		/ /	* / /	
D-3	R&R topping cable	A1-H46AE-220-000 NA 02B-105AHC-6	29R10		/ /	* / /	
D-4	R&R fuel flow divider	A1-H46AE-220-000 NA02B-105AHC-4	2246B		/ /	* / /	

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DA B.11 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-5	R&R fuel control	A1-H46AE-220-000 NA 02B-105AHC-4	22462		/ /	* / /	
D-6	R&R lube pump	A1-H46AE-220-000 NA 02B-105AHC-4	22471		/ /	* / /	
D-7	R&R oil tank & hardware	A1-H46AE-220-000	29D9710		/ /	* / /	
D-8	R&R engine mounts	A1-H46AE-220-000	29D90		/ /	* / /	
D-9	R&R fuel pump filter	A1-H46AE-220-000 NA 02B-105AHC-4	2246C		/ /	* / /	
D-10	R&R fuel static filter	A1-H46AE-220-000 NA 02B-105AHC-4	2246C		/ /	* / /	
D-11	R&R fuel control filter	A1-H46AE-220-000 NA 02B-105AHC-4	2246G		/ /	* / /	
D-12	R&R oil filter/check valve	A1-H46AE-220-000 NA 02B-105AHC-4	22477		/ /	* / /	
D-13	R&R flex shaft	A1-H46AE-220-000 NA 02B-105AHC-4	2243640		/ /	* / /	
D-14	R&R scavenge strain & filter	A1-H46AE-220-000 NA 02B-105AHC-4	2243600		/ /	* / /	
D-15	R&R magnetic plugs	A1-H46AE-220-000 NA 02B-105AHC-4	22459		/ /	* / /	
D-16	R&R intakes	A1-H46AE-220-000 NA 02B-105AHC-4	29D9110		/ /	* / /	
D-17	R&R centrifugal fuel filter	A1-H46AE-220-000 NA 02B-105AHC-4	2246500		/ /	* / /	
D-18	R&R pork chop mount	A1-H46AE-220-000 NA 02B-105AHC-4	29D9650		/ /	* / /	
D-19	R&R bow tie bearing	A1-H46AE-220-000 NA 02B-105AHC-4	29D9690		/ /	* / /	
E	Organizational maintenance (6172)						
E-1	Fuel setting adjustments				/ /	/ /	
E-1.1	Adjust fuel flow divider	A1-H46AE-220-000	2246B		/ /	* / /	
E-1.2	Adjust fuel density	A1-H46AE-220-000			/ /	* / /	
E-2	High speed shaft vibration adjustment	A1-H46AE-220-000			/ /	* / /	
E-3	Engine set-up				/ /	/ /	
E-3.1	Set up zero torque	A1-H46AE-220-000			/ /	* / /	
E-3.2	Set up lower NF	A1-H46AE-220-000			/ /	* / /	
E-3.3	Set up topping	A1-H46AE-220-000			/ /	* / /	
E-3.4	Set up upper NF	A1-H46AE-220-000			/ /	* / /	
E-3.5	Set up load share	A1-H46AE-220-000			/ /	* / /	
E-4	Engine verification checks				/ /	/ /	
E-4.1	Engine vibes	A1-H46AE-220-000			/ /	* / /	
F	Limitations (6172)						
F-1	Gas generator speed (Ng)	A1-H46AE-NFM-000 A1-H46AE-NFM-900			/ /	* / /	

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DA B.11 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
F-2	Power turbine speed (Nf)	A1-H46AE-NFM-000 A1-H46AE-NFM-900			/ /	* / /	
F-3	Engine torque	A1-H46AE-NFM-000 A1-H46AE-NFM-900			/ /	* / /	
F-4	Oil pressure	A1-H46AE-NFM-000 A1-H46AE-NFM-900			/ /	* / /	
F-5	Turbine inlet temperature (T5)	A1-H46AE-NFM-000 A1-H46AE-NFM-900			/ /	* / /	

B.12 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Utility hydraulic systems** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Utility hydraulic systems	A1-H46AE-450-000			* / /	* / /	
B	Organizational maintenance						
B-1	Failure/bypass indicator reset procedures				/ /	/ /	
B-1.1	Utility pressure filter	A1-H46AE-450-000	4528C		* / /	* / /	
B-1.2	Utility return filter	A1-H46AE-450-000	4528D		* / /	* / /	
B-1.3	Utility hydraulic pump	A1-H46AE-450-000	45276		* / /	* / /	
B-1.4	APU motor pump	A1-H46AE-450-000	4528K		* / /	* / /	
B-1.5	Engine air particle separator fan	A1-H46AE-450-000	29D9110		* / /	* / /	
C	Describe limitations						
C-1	Utility pressure (APU driven pump)	A1-H46AE-NFM-000 A1-H46AE-NFM-900			* / /	* / /	
C-2	Utility pressure (XMSN driven pump)	A1-H46AE-NFM-000 A1-H46AE-NFM-900			* / /	* / /	
C-3	Service leakage rates	A1-H46AE-450-000			/ /	* / /	

B.13 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Flight boost systems** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Flight boost systems	A1-H46AE-450-000			* / /	* / /	
B	Organizational maintenance						
B-1	Failure indicator reset procedures				/ /	/ /	
B-1.1	Flight boost pressure filter	A1-H46AE-450-000	4521340		* / /	* / /	
B-1.2	Flight boost return filter	A1-H46AE-450-000	4521340		* / /	* / /	
C	Describes limitations						
C-1	Boost pressure limits	A1-H46AE-NFM-000 A1-H46AE-NFM-900			* / /	* / /	

B.14 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Landing gear systems** 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	Landing gear systems	A1-H46AE-110-000		*	* / /	* / /	

B.15 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **Electrical systems** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Electrical systems				/ /	/ /	
A-1.1	AC system	A1-H46AE-420-000			* / /	/ /	
A-1.2	DC system	A1-H46AE-420-000			* / /	/ /	
A-2	Navigation system	A1-H46AE-NFM-000			* / /	/ /	
A-3	Instrument system	A1-H46AE-NFM-000			* / /	/ /	
A-4	Communications systems	A1-H46AE-660-000			* / /	/ /	
A-5	Automatic flight control system (AFCS)	A1-H46AE-570-000			* / /	/ /	
B	Functional check						
B-1	Electrical systems				/ /	/ /	
B-1.1	Interior lights	A1-H46AE-420-000	44000		* / /	/ /	
B-1.2	Exterior lights	A1-H46AE-420-000	44000		* / /	/ /	

APPENDIX A

INDIVIDUAL EXPERIENCE DATA SHEET

INDIVIDUAL DATA

NAME: _____

SSN: _____

FORMAL SCHOOLS

SCHOOL NAME	DATE COMPLETED

UNIT EXPERIENCE DATA

UNIT	SHOP	BILLET	FROM/TO DATES

COMMENTS:

_____

_____

_____

APPENDIX C

WORK CENTER SUMMARY
HELICOPTER MECHANIC/CREWCHIEF (MOS 6112/6172)

WORK CENTER NAME/NUMBER_____

NAME/MOS	LEVEL	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10	B.1	B.2
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												
	II									XXXXX			XXXXX
	III												
	IV												

DATE: JUNE 2002

WORK CENTER SUMMARY
HELICOPTER MECHANIC/CREWCHIEF (MOS 6112/6172)

WORK CENTER NAME/NUMBER_____

NAME/MOS	LEVEL	B.3	B.4	B.5	B.6	B.7	B.8	B.9	B.10	B.11	B.12	B.13	B.14	B.15
	II									XXXX				
	III													XXXXX
	IV													
	II									XXXX				
	III													XXXXX
	IV													
	II									XXXX				
	III													XXXXX
	IV													
	II									XXXX				
	III													XXXXX
	IV													
	II									XXXX				
	III													XXXXX
	IV													
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	III													XXXXX
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	IV													
	II									XXXX				
	III													XXXXX
	IV													
	II									XXXX				
	III													XXXXX
	IV													
	II									XXXX				
	III													XXXXX
	IV													
	II									XXXX				
	III													XXXXX
	IV													

DATE: JUNE 2002

APPENDIX D

SUPPORT EQUIPMENT LICENSING RECORD

SUPPORT EQUIPMENT NOMENCLATURE	REFERENCE	PHASE I	PHASE II	LICENSED	EXPIRATION

NAME/SSN: _____ RANK: _____ MOS: _____ DATE: JUNE 2002