DUTY AREA
AIRCRAFT ELECTRICAL TECHNICIAN (MOS 6337)

A. GENERAL, OPERATIONAL AND SAFETY DUTIES

1. Operates and maintains applicable shop **support/special equipment**.
2. Demonstrates/applies applicable **safety precautions and procedures in the work center**.
3. Demonstrates/applies knowledge of applicable **aircraft publications, diagrams, sketches and drawings**.
4. Performs tasks on the aircraft using applicable **precision measuring equipment**.
5. Demonstrates/applies knowledge of procedures required to ensure **Electrical Static Discharge (ESD), electrical bonding and Electro-Magnetic Compatibility (EMC)**.

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 changes/bulletins**.
3. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **canopy/boarding ladder system** using appropriate maintenance procedures and support/test equipment.
4. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **landing gear & related systems** using appropriate maintenance procedures and support/test equipment.
5. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **fire detection system** using appropriate maintenance procedures and support/test equipment.
6. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **power plant & related systems** using appropriate maintenance procedures and support/test equipment.
7. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **environmental control systems** using appropriate maintenance procedures and support/test equipment.
8. 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.
9. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **lighting systems** using appropriate maintenance procedures and support/test equipment.
10. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **fuel systems** using appropriate maintenance procedures and support/test equipment.
11. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **pitot static system & related instruments** using appropriate maintenance procedures and support/test equipment.
12. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **air data computer system** using appropriate maintenance procedures and support/test equipment.

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13. Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **integrated flight control system** using appropriate maintenance procedures and support/test equipment.
14. Demonstrates/applies knowledge of theory of operations and performs applicable organizational level maintenance on the **instruments & back-up attitude & navigation systems** using appropriate maintenance procedures and support/test equipment.
15. Demonstrates/applies knowledge of principles of **wire repair** and performs applicable organizational level maintenance 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 NAMTRAGRU DET. 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)/(INDIVIDUAL’S INITIALS)/(SUPERVISOR’S INTIALS)

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

INDIVIDUAL DUTY AREA QUALIFICATION SUMMARY
AIRCRAFT ELECTRICAL TECHNICIAN (MOS 6337)

NAME/SSN_____ Granted MOS 6331_____/_____ Level II Completed_____/_____
Granted MOS 6337_____/_____ Level III Completed_____/_____
Level IV Completed_____/_____

		LEVEL I	LEVEL II	LEVEL III	LEVEL IV
DUTY #	DUTY DESCRIPTION	DATE / SIGN	DATE / SIGN	DATE / SIGN	DATE / SIGN
A.	GENERAL, OPERATIONAL AND SAFETY DUTIES	XXXX

INDIVIDUAL QUALIFICATION RECORD
AIRCRAFT ELECTRICAL TECHNICIAN (MOS 6337)

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	F/A-18 Utility power adapter 74D421139-1001	A1-F18AC-LMM-000		* / /	* / /	
B	20-ton tripod hydraulic jack, 270AS100	NA 19-600-135-6-1 A1-F18AC-LMM-000		/ /	/ /	
C	20-ton tripod hydraulic jack, 782D1100	NA 19-600-135-6-1 A1-F18AC-LMM-000		/ /	/ /	
D	Heating tool, HT-900	A1-F18AX-WRM-000	*	/ /	* / /	
E	Wire & connector repair set	A1-F18AX-WRM-000	*	/ /	* / /	
F	Control stick rigging kit	A1-F18AC-570-300		/ /	/ /	

A.2 Demonstrates/applies applicable **safety precautions and procedures in the work center**.

A	Ground occupational safety and health programs in specific areas	OSHA 29 CFR 1910 NAVAIR A1-NAVOSH-SAF-000/P5100-1 Local Inst		/ /	/ /	
B	Shop emergency procedures					
B-1	Emergency eyewash procedures	Local Instr	*	/ /	/ /	
C	Hydraulic contamination	OPNAVINST 4790.2 NA 01-1A-17 Local Instr		/ /	/ /	
D	Emergency reclamation	OPNAVINST 4790.2 NA 01-1A-509 NA 16-1-540 Local Instr	*	/ /	/ /	
E	Aircraft Safety					
E-1	Canopy safety	A1-F18AX-120-100	*	* / /	* / /	
E-2	Ejection seat safety	A1-F18AX-120-100	*	* / /	* / /	
E-3	Boarding ladder operation	A1-F18AX-LMM-000		* / /	* / /	
E-4	Controls/switches/indicators & normal position	A1-F18AX-LMM-000	*	* / /	* / /	
F	Line Maintenance Emergency Procedures	AI-F18AX-LMM-020		* / /	* / /	
G	General housekeeping	OSHA 29 CFR 1910	*	/ /	* / /	
H	Shop & Equipment Safety	OPNAVINST 4790.2	*	/ /	* / /	
I	Composite Material Safety	OSHA 29 CFR 1910		/ /	* / /	

A.3 Demonstrates/applies knowledge of applicable **aircraft publications, diagrams, sketches and drawings**.

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Principles of Operation Manuals	A1-F18AX-XXX-100	*	* / /	* / /	
B	Testing & Troubleshooting Manuals	A1-F18AX-XXX-200	*	* / /	* / /	
C	System Maintenance w/IPB Manuals	A1-F18AX-XXX-300	*	* / /	* / /	
D	System Schematic Manuals	A1-F18AX-XXX-500	*	* / /	* / /	
E	General Aircraft Manuals					
E-1	General Aircraft Information	A1-F18AC-GAI-000	*	* / /	* / /	
E-2	Line Maintenance Access Doors	A1-F18AC-LMM-010		* / /	* / /	
E-3	Line Maintenance Emergency Procedures	A1-F18AC-LMM-020		* / /	* / /	
E-4	Plane Captain's Manual	A1-F18AC-PCM-000		* / /	* / /	
E-5	Fault Isolation Manual	A1-F18AX-FIM-000 A1-F18AX-FIM-010		* / /	* / /	
E-6	Memory Inspect Access Codes	A1-F18AX-FIM-100		* / /	* / /	
E-7	Fault Reporting Manual	A1-F18AX-FRM-000		* / /	* / /	
E-8	Operational Flight Program Logic Diagrams	A1-F18AX-OLD-000 A1-F18AX-OLD-010		/ /	/ /	
E-9	Operational Flight Program Simplified Schematics	A1-F18AX-OLD-030 Thru A1-F18AX-OLD-070		/ /	/ /	
E-10	Line Maintenance Procedures	A1-F18AC-LMM-000		* / /	* / /	
E-11	Parts List Index Manual	A1-F18AC-IPB-450		* / /	* / /	
E-12	Periodic Maintenance Information Cards	A1-F18AX-MRC-000	*	* / /	* / /	
E-13	Daily/Special/Preservation Maintenance Requirement Cards	A1-F18AX-MRC-2XX	*	* / /	* / /	
E-14	Phase Maintenance Requirement Cards	A1-F18AX-MRC-3XX	*	/ /	* / /	
E-15	Wiring Diagram Manual	A1-F18AX-WDM-000 A1-F18AX-WDM-010	*	* / /	* / /	
E-16	Wiring Repair Manual	A1-F18AX-WRM-000 Thru A1-F18AX-WRM-800	*	* / /	* / /	
E-17	Software Configuration Manual	A1-F18AC-SCM-000 A1-F18AC-SCM-050 A1-F18AC-SCM-060 A1-F18AC-SCM-070		/ /	* / /	
E-18	Workaround Procedures Manual	A1-F18AC-WAP-000		/ /	* / /	
E-19	Work Unit Code Manual	A1-F18AC-WUC-800	*	* / /	* / /	
F	References					
F-1	Naval Aviation Maintenance Program (NAMP)	OPNAVISNT 4790.2		/ /	* / /	
F-2	Aircraft Weapons Systems Cleaning & Corrosion Control	NA 01-1A-509	*	/ /	* / /	
F-3	Avionic Cleaning & Corrosion Prevention/Control Manual	NA 16-1-540	*	/ /	* / /	
F-4	Toxicity, Flashpoint & Flammability of Chemicals	NA 07-1-505		/ /	* / /	
F-5	Consolidated Hazardous Item List	NAVSUP PUB 4500		/ /	* / /	
F-6	Technical Documentation List	A1-F18AC-AML-000		/ /	* / /	
F-7	Miscellaneous Peculiar Support Equipment	AG-000AC-GSE-000 AG-000AC-GSE-100		/ /	* / /	

A.4 Performs tasks on the aircraft using applicable **precision measuring equipment**.

TASK #	TASK DESCRIPTION	REFERENCE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
A	Operates proximity switch control, 74D420030-1001	A1-F18AC-LMM-000 A1-F18AC-510-200		* / /	* / /	
B	Operates Air Data Test Set	A1-F18AC-510-200 A1-F18AC-570-200		* / /	* / /	
C	Operates pitot-static adapter	A1-F18AC-510-200		* / /	* / /	
D	Operates time domain reflectometer	A1-F18AX-WRM-000		/ /	* / /	
E	Operates fuel/LOX gauging test set, 74D51003-1001	A1-F18AX-460-200		/ /	* / /	
F	Operates multimeter, Simpson 260	TO-33A1-12-216-1 A1-F18AC-LWS-000	*	/ /	* / /	
G	Operates Fluke meter 77/AN	MFG pub	*	* / /	/ /	
H	Operates standby compass calibrator	A1-F18AC-730-300		* / /	* / /	
I	Operates arresting hook rigging set, 74D130027-1001	A1-F18AC-130-310		/ /	* / /	
J	Operates fuel system test set, 74D460108-1003	A1-F18AX-460-200		/ /	/ /	

A.5 Demonstrates/applies knowledge of procedures required to ensure **Electrical Static Discharge (ESD), electrical bonding and Electro-Magnetic Compatibility (EMC)**.

A	Electrical Static Discharge (ESD) protection	NA 01-1A-23	*	/ /	* / /	
B	Electrical bonding and Electro- Magnetic Compatibility (EMC) protection	A1-F18AX-WRM-XXX	*	/ /	* / /	

INDIVIDUAL QUALIFICATION RECORD
AIRCRAFT ELECTRICAL TECHNICIAN (MOS 6337)

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	A1-F18AC-MRC-000		*	/ /	* / /	
B	Special/Preservation/Conditional Requirement	A1-F18AX-MRC-2XX		*	/ /	* / /	
C	Phase Maintenance Requirement						
C-1	Performs "A" phase inspection	A1-F18AX-MRC-3XX			/ /	* / /	
C-2	Performs "B" phase inspection	A1-F18AX-MRC-3XX			/ /	* / /	
C-3	Performs "C" phase inspection	A1-F18AX-MRC-3XX			/ /	* / /	
C-4	Performs "D" phase inspection	A1-F18AX-MRC-3XX			/ /	* / /	
D	Performs special 14-day inspection	A1-F18AX-MRC-2XX			* / /	* / /	
E	Performs special 28-day inspection	A1-F18AX-MRC-2XX			/ /	* / /	
F	Performs special 42-day inspection	A1-F18AX-MRC-2XX			/ /	* / /	
G	Performs special 56-day inspection	A1-F18AX-MRC-2XX			/ /	* / /	
H	Performs special 364-day inspection	A1-F18AX-MRC-2XX			/ /	* / /	
I	Performs engine cavity inspection	A1-F18AC-LMM-030			/ /	* / /	
J	Performs gun cavity inspection	A1-F18AC-LMM-030			/ /	* / /	
K	Performs preservation/depreservation inspection	A1-F18AX-MRC-2XX			/ /	* / /	
L	Performs precarrier/pre-deployment inspection	A1-F18AC-LMM-030			/ /	/ /	

B.2 Incorporates applicable **technical directives changes/bulletins**.

A	Technical Directive System	NAVAIRINST 5215.8			/ /	* / /	
B	Rapid Action Minor Engineering Change (RAMEC) Proposals	NAVAIRINST 5215.10			/ /	* / /	
C	Incorporates changes	OPNAVINST 4790.2			/ /	* / /	
D	Incorporates airframes bulletins	OPNAVINST 4790.2			/ /	* / /	

IQR, MOS 6337, NAME:_____ DATE: August 2002

B.3 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **canopy/boarding ladder 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	Canopy system	A1-F18AX-120-100			* / /	* / /	
A-2	Boarding ladder system	A1-F18AX-120-100			/ /	* / /	
B	Functional check						
B-1	Canopy system	A1-F18AX-120-200			* / /	* / /	
B-2	Boarding ladder system	A1-F18AX-120-100	11719		/ /	* / /	
C	Fault isolation						
C-1	Canopy system	A1-F18AX-120-200	12510		/ /	* / /	
C-2	Boarding ladder system	A1-F18AX-120-100	11719		/ /	* / /	

B.4 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **landing gear & related systems** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Landing gear & related system	A1-F18AC-130-100		*	* / /	* / /	
B	Functional check						
B-1	Landing gear control system	A1-F18AC-130-200		*	/ /	* / /	
B-2	Landing gear position indicating system	A1-F18AC-130-200		*	/ /	* / /	
B-3	Landing gear warning system	A1-F18AC-130-200			/ /	* / /	
B-4	Wheel brake & antiskid system	A1-F18AC-130-200			* / /	* / /	
B-5	Nose wheel steering system	A1-F18AC-130-200		*	* / /	* / /	
B-6	Launch bar control/indication system	A1-F18AC-130-200			/ /	* / /	
B-7	Arresting gear control/indication system	A1-F18AC-130-200		*	/ /	* / /	
C	Fault isolation						
C-1	Landing gear control system	A1-F18AC-130-200	13C30	*	/ /	* / /	
C-2	Landing gear position indicating system	A1-F18AC-130-200	13C30	*	/ /	* / /	
C-3	Landing gear warning system	A1-F18AC-130-200	13C30	*	/ /	* / /	
C-4	Wheel brake & antiskid system	A1-F18AC-130-200	13C50		* / /	* / /	
C-5	Nose wheel steering system	A1-F18AC-130-200	13C60	*	* / /	* / /	
C-6	Launch bar control/indication system	A1-F18AC-130-200	13B10		/ /	* / /	
C-7	Arresting gear control/indication system	A1-F18AC-130-200	13A10	*	/ /	* / /	
D	Organizational maintenance						
D-1	R&R landing gear control unit	A1-F18AC-130-300	13C3220		/ /	* / /	
D-2	R&R MLG downlock switch	A1-F18AC-130-300	13C1G		/ /	* / /	
D-3	R&R MLG weight-on-wheels switch	A1-F18AC-130-300	13C1G		/ /	* / /	
D-4	R&R MLG uplock switch	A1-F18AC-130-300	13C1G		/ /	* / /	
D-5	R&R NLG weight on wheels switch	A1-F18AC-130-300	13C1G		/ /	* / /	
D-6	R&R LH vertical console control panel	A1-F18AC-130-300	12111AO		/ /	/ /	
D-7	R&R motion pickup transducer	A1-F18AC-130-300	13C5400		* / /	/ /	

DA B.4 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-8	R&R skid control box assembly	A1-F18AC-130-300	13C5410		* / /	/ /	
D-9	R&R arresting hook up switch	A1-F18AC-130-300	13A1310		/ /	/ /	
D-10	R&R arresting hook down prox switch	A1-F18AC-130-300	13A1320		/ /	/ /	
D-11	Rigs MLG downlock switch	A1-F18AC-130-300	13C1G		/ /	* / /	
D-12	Rigs weight-on-wheels switch	A1-F18AC-130-300	13C1G		/ /	* / /	
D-13	Rigs MLG uplock switch	A1-F18AC-130-300	13C1G		/ /	* / /	

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

A	Theory of operation						
A-1	Fire detection system	A1-F18AC-240-100		*	* / /	* / /	
B	Functional check						
B-1	Fire detection system	A1-F18AC-240-200		*	* / /	* / /	
C	Fault isolation						
C-1	Fire detection system	A1-F18AC-240-200	49110	*	* / /	* / /	
D	Organizational maintenance						
D-1	R&R fire detection control unit	A1-F18AC-240-300	49111		* / /	* / /	
D-2	R&R fire detection element	A1-F18AC-240-300	49110		/ /	/ /	

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

A	Theory of operation						
A-1	Power plant & related systems	A1-F18AC-270-100		*	* / /	* / /	
B	Functional check						
B-1	Engine monitor indicator	A1-F18AC-270-200			/ /	* / /	
B-2	Inlet bleed air doors	A1-F18AC-270-200			* / /	/ /	
B-3	Inlet ice detector	A1-F18AC-270-200			* / /	* / /	
B-4	Integrated fuel-eng indicator	A1-F18AC-270-200	58X1700		* / /	/ /	
C	Fault isolation						
C-1	Engine monitor indicators	A1-F18AC-270-200	5111C00		/ /	* / /	
C-2	Inlet bleed air doors	A1-F18AC-270-200	29120		* / /	/ /	
C-3	Inlet ice detector	A1-F18AC-270-200	4941100		* / /	* / /	
C-4	Integrated fuel-eng indicator	A1-F18AC-270-200	58X1700		* / /	/ /	
D	Organizational maintenance						
D-1	R&R crew station engine monitor indicator	A1-F18AC-270-300	5111COO		/ /	/ /	
D-2	R&R inlet bleed air door actuator	A1-F18AC-270-300	2912110		/ /	* / /	
D-3	R&R inlet ice detector	A1-F18AC-270-300	4941100		/ /	/ /	
D-4	R&R Integrated fuel-eng indicator	A1-F18AC-270-300	58X1700		* / /	/ /	

B.7 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **environmental control 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	Environmental control systems	A1-F18AC-410-100			* / /	* / /	
B	Functional check						
B-1	Avionics cooling system	A1-F18AC-410-200			* / /	* / /	
B-2	Bleed air leak detection system	A1-F18AC-410-200			* / /	* / /	
C	Fault isolation						
C-1	Avionics cooling system	A1-F18AC-410-200	41150		* / /	* / /	
C-2	Bleed air leak detection system	A1-F18AC-410-200	49420		* / /	* / /	
D	Organizational maintenance						
D-1	R&R ECS panel assembly	A1-F18AC-410-300	4112F00		/ /	/ /	
D-2	R&R bleed air leak detection control unit	A1-F18AC-410-300	4942100		* / /	* / /	
D-3	R&R engine duct sensing element	A1-F18AC-410-300	49422		/ /	* / /	
D-4	R&R ACS temperature/flow control	A1-F18AC-410-300	4115700		/ /	/ /	
D-5	R&R avionics ground cooling fan	A1-F18AC-410-300	41158		* / /	/ /	
D-6	R&R avionics ground cooling fan contractor	A1-F18AC-410-300	4115R		/ /	* / /	
D-7	R&R avionics fan control pressure switch	A1-F18AC-410-300	4115R		/ /	/ /	
D-8	R&R avionics ground cooling air inlet duct adapter & coupling switch	A1-F18AC-410-300	4115R		/ /	/ /	
D-9	R&R FCS emergency ram air scoop solenoid	A1-F18AC-410-300	4115R		/ /	/ /	
D-10	R&R avionics cooling fan (cockpit) & filter	A1-F18AC-410-300	4115G00		/ /	/ /	

B.8 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	A1-F18AC-420-100		*	* / /	* / /	
B	Functional check						
B-1	AC power system	A1-F18AC-420-200		*	* / /	* / /	
B-2	DC power system	A1-F18AC-420-200		*	* / /	* / /	
B-3	Ground power switching system	A1-F18AC-420-200		*	* / /	* / /	
C	Fault isolation						
C-1	AC power system	A1-F18AC-420-200	42110	*	* / /	* / /	
C-2	DC power system	A1-F18AC-420-200	42310	*	* / /	* / /	
C-3	Ground power switching system	A1-F18AC-420-200	42510	*	* / /	* / /	
D	Organizational maintenance						
D-1	R&R utility/emergency battery	A1-F18AC-420-300	4231C		* / /	* / /	
D-2	R&R utility/emergency battery limiter/holder	A1-F18AC-420-300	42319		/ /	/ /	
D-3	R&R battery charging panel assembly	A1-F18AC-420-300	4231A		/ /	/ /	
D-4	R&R utility/emergency battery voltmeter	A1-F18AC-420-300	4231B00		/ /	/ /	
D-5	R&R battery charger converter	A1-F18AC-420-300	4231220		/ /	/ /	
D-6	R&R DC power sensor	A1-F18AC-420-300	42310		/ /	/ /	

DA B.8 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D-7	R&R L/R DC bus tie current limiter/holder	A1-F18AC-420-300	42317		/ /	* / /	
D-8	R&R L/R power supply	A1-F18AC-420-300	42311		* / /	/ /	
D-9	R&R external power monitor	A1-F18AC-420-300	42510		/ /	/ /	
D-10	R&R external power contactor	A1-F18AC-420-300	42510		/ /	* / /	
D-11	R&R generator tie control panel assembly	A1-F18AC-420-300	42317		/ /	/ /	
D-12	R&R electric power control panel assembly	A1-F18AC-420-300	4211740		* / /	/ /	
D-13	R&R L/R A/C bus tie current limiters/limit holders	A1-F18AC-420-300	4211700		/ /	/ /	
D-14	R&R L/R current transformer assembly	A1-F18AC-420-300	4211700		/ /	/ /	
D-15	R&R L/R bus tie contactor	A1-F18AC-420-300	4211700		/ /	* / /	
D-16	R&R L/R power contactor	A1-F18AC-420-300	4211700		/ /	* / /	
D-17	R&R 26 volt AC transformer assembly	A1-F18AC-420-300	4211700		/ /	/ /	
D-18	R&R ground power control panel assembly	A1-F18AC-420-300	42516		* / /	/ /	
D-19	R&R #2 circuit breaker panel assembly	A1-F18AC-420-300	4241120		/ /	/ /	
D-20	R&R #4 circuit breaker panel assembly	A1-F18AC-420-300	4241140		/ /	/ /	
D-21	R&R #5 circuit breaker panel assembly	A1-F18AC-420-300	4241150		/ /	/ /	
D-22	R&R #7 circuit breaker/relay panel assembly	A1-F18AC-420-300	4241170		* / /	* / /	
D-23	R&R #8 circuit breaker/relay panel assembly	A1-F18AC-420-300	4241180		/ /	/ /	
D-24	R&R #2 relay panel assembly	A1-F18AC-420-300	4241220		/ /	/ /	
D-25	R&R #3 relay panel assembly	A1-F18AC-420-300	4241230		/ /	/ /	
D-26	R&R #4 relay panel assembly	A1-F18AC-420-300	4241240		/ /	* / /	
D-27	R&R LH essential circuit breakers control panel assembly	A1-F18AC-420-300	42411A0		/ /	/ /	
D-28	R&R RH essential circuit breakers control panel assembly	A1-F18AC-420-300	4241130		/ /	/ /	
D-29	R&R #9 relay panel assembly	A1-F18AC-420-300	4241290		/ /	/ /	
D-30	R&R generator converter unit	A1-F18AC-420-300	4211800		/ /	/ /	

B.9 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **lighting systems** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Lighting systems	A1-F18AC-440-100		*	* / /	* / /	
B	Functional check						
B-1	Interior lighting system	A1-F18AC-440-200		*	* / /	* / /	
B-2	Warning/caution/advisory lighting system	A1-F18AC-440-200		*	* / /	* / /	
B-3	Exterior lighting system	A1-F18AC-440-200		*	* / /	* / /	
C	Fault isolation						
C-1	Interior lighting system	A1-F18AC-440-200	44110	*	* / /	* / /	
C-2	Warning/caution/advisory lighting system	A1-F18AC-440-200	49210		* / /	* / /	
C-3	Exterior lighting system	A1-F18AC-440-200	44310	*	* / /	* / /	

DA B.9 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
D	Organizational maintenance						
D-1	R&R cockpit electric light control	A1-F18AC-440-300	4411520		* / /	* / /	
D-2	R&R exterior light control panel assembly	A1-F18AC-440-300	4431510		* / /	/ /	
D-3	R&R LEX position light	A1-F18AC-440-300	4431130		* / /	/ /	
D-4	R&R wing tip position light	A1-F18AC-440-300	4431110		/ /	* / /	
D-5	R&R supplemental position light	A1-F18AC-440-300	4431140		/ /	/ /	
D-6	R&R tail position light	A1-F18AC-440-300	4431120		/ /	* / /	
D-7	R&R formation lights	A1-F18AC-440-300	44319		/ /	* / /	
D-8	R&R wing tip formation light	A1-F18AC-440-300	44319		/ /	/ /	
D-9	R&R landing/taxi light assembly	A1-F18AC-440-300	4431310		* / /	* / /	
D-10	R&R tail position light transformer	A1-F18AC-440-300	4431G		/ /	/ /	
D-11	R&R anticollision strobe light	A1-F18AC-440-300	4431400		/ /	* / /	
D-12	R&R strobe light power supply	A1-F18AC-440-300	4431420		* / /	* / /	
D-13	R&R strobe light fault indicator	A1-F18AC-440-300	44319		/ /	/ /	
D-14	R&R interior light control box panel assembly	A1-F18AC-440-300	4411510		* / /	/ /	
D-15	R&R cockpit floodlight	A1-F18AC-440-300	44110		/ /	/ /	
D-16	R&R L/R advisory & threat warning indicator panel	A1-F18AC-440-300	49212		/ /	/ /	
D-17	R&R caution light indicator panel	A1-F18AC-440-300	4921100		/ /	/ /	

B.10 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **fuel systems** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Fuel systems	A1-F18AX-460-100		*	* / /	* / /	
B	Functional check						
B-1	Fuel quantity gauging system	A1-F18AX-460-200		*	* / /	* / /	
B-2	Fuel low level warning system	A1-F18AX-460-200			* / /	* / /	
C	Fault isolation						
C-1	Fuel quantity gauging system	A1-F18AX-460-200	46410	*	* / /	* / /	
C-2	Fuel low level warning system	A1-F18AX-460-200	46410		* / /	* / /	
C-3	Performance transmitter capacitance test	A1-F18AX-460-200	46000		* / /	/ /	
D	Organizational maintenance						
D-1	R&R fuel quantity indicator	A1-F18AX-460-300	4641500		/ /	/ /	
D-2	R&R fuel quantity gauging intermediate device	A1-F18AX-460-300	4641700		* / /	/ /	
D-3	R&R selected fuel quantity transmitters	A1-F18AX-460-300	4641F		/ /	* / /	
D-4	R&R fuel low level sensing control unit	A1-F18AX-460-300	46412		/ /	/ /	

B.11 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **pitot static system & related instruments** 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	Pitot static system & related instruments	A1-F18AC-510-100		*	* / /	* / /	
B	Functional check						
B-1	Pitot static system & related instruments	A1-F18AC-510-200		*	* / /	* / /	
B-2	Pitot static system heaters	A1-F18AC-510-200		*	* / /	* / /	
C	Fault isolation						
C-1	Pitot static system & related instruments	A1-F18AC-510-200	51X10	*	* / /	* / /	
C-2	Pitot static system heaters	A1-F18AC-510-200	5111100	*	* / /	* / /	
D	Organizational maintenance						
D-1	R&R L shaped pitot static tube	A1-F18AC-510-300	5111120		* / /	* / /	
D-2	R&R standby instruments	A1-F18AC-510-300	51X10		/ /	* / /	
D-3	R&R static source select valve	A1-F18AC-510-300	5111120		/ /	* / /	
D-4	R&R static tube tee	A1-F18AC-510-300	5111120		/ /	* / /	
D-5	R&R current flow sensor	A1-F18AC-510-300	51119		/ /	/ /	
D-6	R&R moisture trap assembly	A1-F18AC-510-300	5111120		/ /	* / /	
D-7	R&R mechanical aircraft clock	A1-F18AC-510-300	51X1X		/ /	/ /	

B.12 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **air data computer system** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Air data computer system	A1-F18AC-560-100		*	* / /	* / /	
B	Functional check						
B-1	Air data computer system	A1-F18AC-560-200			* / /	* / /	
B-2	TTP/ADSU heaters	A1-F18AC-560-200			* / /	* / /	
B-3	AOA approach & indexer lights	A1-F18AC-560-200		*	* / /	* / /	
C	Fault isolation						
C-1	Air data computer system	A1-F18AC-560-200	56450		* / /	* / /	
D	Organizational maintenance						
D-1	R&R air data computer	A1-F18AC-560-300	56X2800	*	* / /	* / /	
D-2	R&R total temperature probe	A1-F18AC-560-300	56459		/ /	/ /	
D-3	R&R air stream direction sensing unit	A1-F18AC-560-300	56X2A		/ /	* / /	
D-4	R&R AOA approach light assembly	A1-F18AC-560-300	4431322		/ /	/ /	
D-5	R&R approach lights flasher	A1-F18AC-560-300	4431320		/ /	/ /	
D-6	R&R AOA indexer assembly	A1-F18AC-560-300	44119		/ /	/ /	

B.13 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **integrated flight control 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	Integrated flight control systems	A1-F18AC-570-100		*	* / /	* / /	
B	Functional check						
B-1	FCS maint BIT procedure	A1-F18AC-570-200	57D90		* / /	/ /	
B-1.1	FCS NWS BIT procedure	A1-F18AC-570-200	57D90		* / /	* / /	
B-1.2	FCS ATC BIT procedure	A1-F18AC-570-200	57D90		/ /	* / /	
B-1.3	FCS rig procedure	A1-F18AC-570-200	57D90		/ /	* / /	
B-2	FCS test groups	A1-F18AC-570-200	57D90		* / /	* / /	
C	Fault isolation						
C-1	Horizontal stabilators system	A1-F18AC-570-200	14310		/ /	* / /	
C-2	Trailing edge flaps system	A1-F18AC-570-200	14610	*	/ /	* / /	
C-3	Leading edge flap system	A1-F18AC-570-200	14510		* / /	* / /	
C-4	Rudder system	A1-F18AC-570-200	14410		/ /	* / /	
C-5	Aileron system	A1-F18AC-570-200	14210		/ /	* / /	
D	Organizational maintenance						
D-1	R&R linear electric accelerometer	A1-F18AC-570-300	57D9600		/ /	* / /	
D-2	R&R ACFT controls stick grip assembly	A1-F18AC-570-300	14112		/ /	* / /	
D-3	R&R control stick sensor	A1-F18AC-570-300	57D9300		/ /	/ /	
D-4	R&R rudder control	A1-F18AC-570-300	57D94		/ /	/ /	
D-5	R&R rate gyroscope	A1-F18AC-570-300	57D9500		/ /	* / /	
D-6	R&R air data sensor	A1-F18AC-570-300	57D9700		/ /	/ /	
D-7	R&R FCS control panel	A1-F18AC-570-300	57D9200		/ /	/ /	
D-8	R&R longitudinal feel trim actuator	A1-F18AC-570-300	1411300		* / /	* / /	
D-9	R&R asymmetry control	A1-F18AC-570-300	1451361		/ /	* / /	
D-10	R&R ratio change actuator	A1-F18AC-570-300	1431260		* / /	/ /	
D-11	R&R wingfold electric drive unit	A1-F18AC-570-300	14A1111		* / /	/ /	
D-12	R&R roll pitch yaw computer	A1-F18AC-570-300	57D9100		* / /	* / /	

B.14 Demonstrates/applies knowledge of theory of operation and performs applicable organizational level maintenance on the **instruments, back-up attitude & navigation systems** using appropriate maintenance procedures and support/test equipment.

A	Theory of operation						
A-1	Instruments, back-up attitude & navigation systems	A1-F18AC-730-100		*	* / /	* / /	
A-2	Inertial navigation system	A1-F18AC-730-100		*	* / /	/ /	
B	Functional check						
B-1	Attitude reference indicator operation	A1-F18AC-730-200			* / /	* / /	
B-2	Performs instruments ground initiated BIT	A1-F18AC-730-200			* / /	* / /	
B-3	Performs instruments ground initiated BIT & platform slew	A1-F18AC-730-200			* / /	* / /	
B-4	Performs MAD initiated BIT	A1-F18AC-730-200			* / /	* / /	

DA B.14 (Continued)

TASK #	TASK DESCRIPTION	REFERENCE	WUC	LEVEL I	LEVEL II	LEVEL III	LEVEL IV
C	Fault isolation						
C-1	Instruments, back-up attitude navigation systems	A1-F18AC-730-200	73M00	*	* / /	* / /	
C-2	Inertial navigation system	A1-F18AC-730-200		*	/ /	/ /	
D	Organizational maintenance						
D-1	R&R inertial navigation unit	A1-F18AC-730-300	73M1800		* / /	* / /	
D-2	R&R light support & MAD compensator panel	A1-F18AC-730-300	56X2C		/ /	* / /	
D-3	R&R magnetic azimuth detector	A1-F18AC-730-300	56X31		/ /	* / /	
D-4	R&R standby compass	A1-F18AC-730-300	51X2B		/ /	* / /	
D-5	R&R static power inverter	A1-F18AC-730-300	56X29		/ /	/ /	
D-6	R&R attitude reference indicator	A1-F18AC-730-300	56X35		* / /	/ /	
D-7	Performs ground align procedures	A1-F18AC-730-300	73M10	*	* / /	* / /	
D-8	Performs ground alignment stored heading procedures	A1-F18AC-730-300	73M10		/ /	* / /	
D-9	Performs gyro bias calibration	A1-F18AC-730-300	73M10		/ /	* / /	
D-10	Performs MAD calibration-ground	A1-F18AC-730-300	56X20		* / /	* / /	
D-11	Performs standby compass calibration	A1-F18AC-730-300	51X29		* / /	* / /	
D-12	Performs boresight (IMU) shimming	A1-F18AC-730-300	73M00		/ /	/ /	

B.15 Demonstrates/applies knowledge of the principles of **wire repair** and performs applicable organizational level maintenance of aircraft wiring using appropriate maintenance procedures and support/test equipment.

A	Wire repair procedures	A1-F18AX-WRM-XXX		*	* / /	* / /	
B	Use of wire repair manuals	A1-F18AX-WRM-XXX		*	* / /	* / /	
C	Use of applicable tools/support equipment	A1-F18AX-WRM-XXX		*	* / /	* / /	
D	Routing of wires/wire bundles/coax cables	A1-F18AX-WRM-XXX		*	* / /	* / /	
E	Repair of coaxial connectors	A1-F18AX-WRM-XXX			* / /	/ /	
F	Repair/replacement of cannon plugs	A1-F18AX-WRM-XXX		*	* / /	* / /	
G	Installation of splices/terminals/end caps	A1-F18AX-WRM-XXX		*	* / /	* / /	
H	Repair of shielded/non-shielded conductors	A1-F18AX-WRM-XXX		*	* / /	* / /	
I	Environmental sealing of cables/components	A1-F18AX-WRM-XXX			/ /	* / /	
J	Installation of insulation sleeving/protective boots	A1-F18AX-WRM-XXX			/ /	* / /	

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:

_____

_____

_____

DATE: August 2002

APPENDIX C

WORK CENTER SUMMARY
AIRCRAFT ELECTRICAL TECHNICIAN (MOS 6337)

WORK CENTER NAME/NUMBER_____

NAME/MOS	LEVEL	A.1	A.2	A.3	A.4	A.5	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	B.9	B.10
	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: August 2002

APPENDIX C

WORK CENTER SUMMARY
AIRCRAFT ELECTRICAL TECHNICIAN (MOS 6337)

WORK CENTER NAME/NUMBER_____

NAME/MOS	LEVEL	B.11	B.12	B.13	B.14	B.15
	II					
	III					
	IV					
	II					
	III					
	IV					
	II					
	III					
	IV					
	II					
	III					
	IV					
	II					
	III					
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	III					
	IV					
	II					
	III					
	IV					
	II					
	III					
	IV					
	II					
	III					
	IV					
	II					
	III					
	IV					

DATE: August 2002

APPENDIX D

SUPPORT EQUIPMENT LICENSING RECORD

SUPPORT EQUIPMENT NOMENCLATURE	REFERENCE	PHASE I	PHASE II	LICENSED	EXPIRATION

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