FLIGHT LINE MAINTENANCE (F-16 C/D)

1. Objective. This standard is published as prescribed in AFI 38-201, *Determining Manpower Requirements,* This Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower required to accomplish the tasks described in the work center description for varying levels of workload volume.

2. Authority. Air National Guard Regulation 66-14, *Maintenance Management*, 13 July 1988, contains policy and procedural guidance for the Flight Line Maintenance work center. This ANGMS has been developed in accordance with procedures contained in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes,* formerly AFR 25-5.

3. Applicability. Applies to all ANG Fighter Wings and Groups possessing F-16 C/D mission design series (MDS) aircraft. This standard applies to peacetime operations only.

4. Standard Data:

a. Classification. Type II.
b. Approval Date. 15 June 1994.
c. Man-hour Data Source. Operational Audit method (historical record and technical estimate techniques).
d. Standard Man-hour Equation. $Y = 635.8 + 9.565X$.
e. Workload Factor:
(1) Title. A Sortie Flown.
(2) Definition. The average monthly number of sorties flown by F-16C/D MDS aircraft.
(3) Source. USAF Program Document, Volume II, maintained by NGB/FM will be used to obtain programmed flying hours. See paragraph 5, Application Instructions, to calculate sorties.

5. Application Instructions:

a. The valid man-hour range for this ANGMS is 2270.27 through 4600.36.
b. This ANGMS is appropriate for use with all peacetime civilian man-hour availability factors.
c. To determine the monthly number of sorties, refer to ANGRC/DOH to obtain the average sortie duration (ASD). The ASD is maintained in the computerized historical files for each aircraft by year. Divide programmed flying hours by the ASD which will yield predicted sorties. Substitute this value into the equation for "X." The resultant number will be divided by the current civilian man-hour availability factor which will produce fractional manpower requirements. Use the fractional manpower table provided by ANGRC/XPME to determine total whole-man requirements.
d. Refer to attachment 2, AF Form 1113, Standard Manpower Table, to determine specific Air Force specialties.

6. Statement of Conditions. The conditions listed below had no affect on the development of this standard, nor will they affect future applications. Analyses of these levels of service indicate no manpower impact:

a. Minimum response rates.
b. Minimum manpower levels.
c. Standardized crew complements.
d. Safety considerations.
e. Aircraft turn-around time.
f. Length of waiting periods.

g. Levels of backlog.
h. Hours of operation.

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2 Attachments
1. Work Center Description
2. Standard Manpower Table

WORK CENTER DESCRIPTION

Flight Line Maintenance
(F-16 C/D)

DIRECT:

1. FLIGHT LINE INSPECTION:

1.1. PERFORMS AIRCRAFT INSPECTION. Performs aircraft inspection, servicing, and maintenance. Reviews and updates AFTO Form 781, AFORM Aircrew/Mission Flight Data Document.

1.1.1. PERFORMS PREFLIGHT INSPECTION.

1.1.2. PERFORMS END-OF-RUNWAY INSPECTION.

1.1.3. PERFORMS DAILY WALK-AROUND INSPECTION.

1.1.4. PERFORMS QUICK TURNAROUND INSPECTION.

1.1.5. PERFORMS LAUNCH AND RECOVERY INSPECTION.

1.1.6. PERFORMS THRUFLIGHT INSPECTION.

1.1.7. PERFORMS POSTFLIGHT INSPECTION.

1.1.8. PERFORMS COMBINED PREFLIGHT/POSTLIGHT INSPECTION.

1.2. ACCOMPLISHES PHASE INSPECTION. Accompanies aircraft through look phase, fix phase, and attends prephase/postphase inspection meeting.

1.3. PERFORMS SPECIAL INSPECTION. Performs special inspection, servicing, and maintenance.

2. GENERAL SUPPORT MAINTENANCE:

2.1. PERFORMS GROUND HANDLING AND SERVICING. Performs ground handling, servicing, and related task. Tows/positions/parks aircraft and performs general maintenance not included in category one.

2.1.1. TOWS AND POSITIONS AIRCRAFT.

2.1.2. PERFORMS PARKING AND PRETAXI.

2.1.3. PERFORMS ENGINE RUN-UP.

2.1.4. PERFORMS AIRCRAFT MOORING.

2.1.5. FUELS AND DEFUELS AIRCRAFT.

2.1.6. PERFORMS FUEL TANK PURGING.

2.1.7. PERFORMS OIL SERVICING.

2.1.8. SERVICES/PURGES OXYGEN SYSTEM.

2.1.9. SERVICES AIR PRESSURIZED SYSTEM.

2.1.10. REMOVES AND INSTALLS HALON BOTTLE.

2.1.11. SERVICES HYDRAULIC SYSTEM.

2.1.12. LOADS AND UNLOADS BALLAST PLATE.

2.1.13. SERVICES MISCELLANEOUS SYSTEM.

2.1.14. PERFORMS LUBRICATION.

2.1.15. PERFORMS AGE POSITIONING.

2.1.16. PERFORMS 780 EQUIPMENT PICK-UP AND DELIVERY.

2.1.17. PERFORMS POD, PYLON, AND EXTERNAL TANK HANDLING.

2.1.18. PERFORMS AIRCRAFT JACKING FOR MAINTENANCE.

2.2. PERFORMS AIRCRAFT CLEANING. Prepares for and cleans aircraft to include after wash lubrication.

3. CORRECTIVE AND PREVENTATIVE MAINTENANCE:

3.1. PERFORMS CORRECTIVE AND PREVENTATIVE MAINTENANCE. Performs corrective and preventative maintenance to ensure aircraft is mission capable.

3.1.1. PERFORMS AIRCRAFT AIRFRAME MAINTENANCE.

3.1.2. PERFORMS AIRCREW STATION SYSTEM MAINTENANCE.

3.1.3. MAINTAINS LANDING GEAR SYSTEM.

3.1.4. MAINTAINS FLIGHT CONTROL SYSTEM.

3.1.5. PERFORMS TURBOFAN POWER PLANT MAINTENANCE.

3.1.6. MAINTAINS AUXILIARY POWER PLANT/JET FUEL STARTER.

3.1.7. PERFORMS MAINTENANCE ON ENVIRONMENTAL CONTROL SYSTEM COMPONENT.

3.1.8. REMOVES AND REPLACES ELECTRICAL POWER SUPPLY COMPONENT.

3.1.9. REMOVES AND REPLACES LIGHTING SYSTEM COMPONENT.

3.1.10. PERFORMS MAINTENANCE ON HYDRAULIC AND PNEUMATIC SYSTEM.

3.1.11. PERFORMS MAINTENANCE ON FUEL SYSTEM.

3.1.12. PERFORMS MAINTENANCE ON OXYGEN SYSTEM.

3.1.13. PERFORMS MISCELLANEOUS UTILITY MAINTENANCE.

3.1.14. REMOVES AND REPLACES CLOCK.

3.1.15. REMOVES AND REPLACES STATIC DISCHARGERS.

3.2. MAINTAINS GUN PURGE HYDRAULIC COMPONENT. Inspects, troubleshoots, repairs, adjusts, removes, replaces, modifies, and performs functional check on-equipment.

3.3. PERFORMS TIME COMPLIANCE TECHNICAL ORDER (TCTO). Accomplishes directed TCTO and completes documentation.

3.4. DOWNLOADS ENGINE DATA.

4. AIRCREW DEBRIEFING. Manages and performs aircrew debriefing.

5. AIRCRAFT DOCUMENTATION MAINTENANCE. Prepares and maintains aircraft documentation.

6. CRASH RECOVERY RESPONSE. Performs task required to support unit crash recovery program.

7. TECHNICAL DATA SUBACCOUNT MAINTENANCE. Receives and posts data and change to technical order file. Maintains file for serviceability.

8. HAZARDOUS WASTE MANAGEMENT PROGRAM:

8.1. PROCESSES HAZARDOUS WASTE. Identifies, labels, contains, and disposes of hazardous waste.

8.2. MAINTAINS COLLECTION FACILITY. Maintains hazardous waste accumulation point, satellite collection area, and container.

8.3. MAINTAINS PROTECTIVE EQUIPMENT. Inspects and maintains protective equipment.

9. UNIT TRAINING ASSEMBLY (UTA) PREPARATION. Performs planning and scheduling task associated with preparation for UTA.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are Supervision, Administration, Meetings, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE

WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
Flightline Maintenance/2211CD			2270.27 - 4600.36								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aircraft	2A3X	CIV	2	2	2	2	2	2	2	2	2
Tac Acft Maint	2A3X3B	CIV	13	14	15	16	17	18	19	20	21
TOTAL			15	16	17	18	19	20	21	22	23
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Aircraft	2A3XX	CIV	2	2	2	2	2	2	2	2	
Tac Acft Maintenance	2A3X3B	CIV	22	23	24	25	26	27	28	29	
TOTAL			24	25	26	27	28	29	30	31	

AF FORM 1113, Jun 91 (COMPUTER GENERATED). PREVIOUS EDITION IS OBSOLETE