

AUTOFLIGHT/INSTRUMENTS

(C-130E)

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1. **Objective.** 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.
 2. **Authority.** The AFI 21-series of Air Force (AF) and/or Air National Guard (ANG) directives contain US Air Force and Command policy and procedural guidance for the Autoflight/Instruments work center. This manpower standard was developed using the functional review process under procedures outlined in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, formerly AFR 25-5.
 3. **Applicability.** This standard applies to all Air National Guard C-130E airlift units except the 109th and 189th Airlift Groups, and the 193rd Special Operations Group. This standard only applies to peacetime operations.
 4. **Standard Data:**
 - a. **Classification.** Type II.
 - b. **Approval Date.** 9 July 1992.
 - c. **Man-hour Data Source.** Operational Audit method (historical record and technical estimate techniques).
 - d. **Standard Man-hour Equation.** $Y = -121.2 + 2.049X$.
 - e. **Workload Factor:**
 - (1). **Title.** A C-130E Programmed Flying Hour.
 - (2). **Definition.** The average monthly programmed flying hours.
 - (3). **Source.** USAF Program Document, Volume II, maintained by NGB/FM.
 5. **Application Instructions:**
 - a. The valid man-hour range for this ANGMS is 218.80 through 420.77.
 - b. This ANGMS is appropriate for use with all peacetime civilian man-hour availability factors.
 - c. Refer to the appropriate column in the standard manpower table at attachment 2 to determine the skill distribution.
 - d. Should the extrapolation limits be exceeded, see AFI 38-201, *Determining Manpower Requirements*, for guidance.
 6. **Statement of Conditions:**
 - a. There were no general conditions (environmental, equipment, or facility) which had an impact on the development or application of this manpower standard.
 - b. There were no approved enhancements that impacted the man-hour equation for this work center.

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

WORK CENTER DESCRIPTION**Autoflight/Instruments
(C-130E)****DIRECT:****1. ON-EQUIPMENT MAINTENANCE:**

1.1. MAINTAINS AIRCRAFT SYSTEM AND COMPONENT. Inspects, troubleshoots, and repairs on-equipment.

1.1.1. MAINTAINS AIR FRAME SYSTEM.

1.1.2. MAINTAINS COCKPIT.

1.1.3. MAINTAINS ENGINE INSTRUMENT CONTROL.

1.1.4. MAINTAINS FLIGHT SYSTEM.

1.1.5. MAINTAINS HYDRAULIC SYSTEM.

1.1.6. MAINTAINS INSTRUMENT FUEL SYSTEM.

1.1.7. MAINTAINS FLIGHT INSTRUMENT SYSTEM.

1.1.8. MAINTAINS RECORDER SYSTEM.

1.1.9. MAINTAINS AUTOPILOT SYSTEM.

1.1.10. MAINTAINS COMPASS SYSTEM.

1.1.11. MAINTAINS LIQUID OXYGEN (LOX) INSTRUMENT SYSTEM.

1.1.12. MAINTAINS AUXILIARY POWER PLANT SYSTEM.

1.1.13. MAINTAINS AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL.

1.1.14. MAINTAINS RADIO NAVIGATION SYSTEM.

1.2. PERFORMS INSPECTION. Performs special, phase, and hourly aircraft inspection.

1.2.1. PERFORMS SPECIAL INSPECTION.

1.2.2. PERFORMS PHASE/HOURLY INSPECTION.

2. OFF-EQUIPMENT MAINTENANCE:

2.1. MAINTAINS AIRCRAFT SYSTEM AND COMPONENT. Inspects, troubleshoots, and repairs off-equipment.

2.1.1. MAINTAINS INSTRUMENT FUEL SYSTEM.

2.1.2. MAINTAINS FLIGHT INSTRUMENT SYSTEM.

2.1.3. MAINTAINS RECORDER SYSTEM.

2.1.4. MAINTAINS ENGINE INSTRUMENT.

2.1.5. MAINTAINS AUTOPILOT SYSTEM.

2.1.6. MAINTAINS COMPASS SYSTEM.

2.1.7. MAINTAINS HYDRAULIC SYSTEM.

2.1.8. MAINTAINS LOX INSTRUMENT SYSTEM.

2.1.9. MAINTAINS AUXILIARY POWER PLANT SYSTEM.

2.1.10. MAINTAINS AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL SYSTEM.

2.1.11. MAINTAINS RADIO NAVIGATION SYSTEM.

3. MAGNETIC SURVEY OF COMPASS ROSE. Performs annual check of compass rose to ensure that the area meets technical order specifications.

4. TIME COMPLIANCE TECHNICAL ORDER (TCTO). Performs maintenance required on/off the aircraft in accordance with applicable TCTO and completes documentation.

5. PERIODIC MAINTENANCE OF AVIONICS EQUIPMENT IN BASE SUPPLY. Performs periodic functional check or calibration of equipment stored in Base Supply to maintain shelf life and ensure serviceability before use.

6. SHOP SUPPORT GENERAL CODE. Performs shop support general code.

7. GROUND HANDLING, SERVICING, AND RELATED TASK. Performs ground handling, servicing, and related task.

8. NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE). Maintains AGE.

9. ASSISTANCE. Assists other Maintenance function in the performance of direct labor maintenance requirement to ensure effective utilization of maintenance personnel.

10. UNIT TRAINING ASSEMBLY (UTA), MOBILITY REQUIREMENT, AND BATTLE DAMAGE PROGRAM. Performs planning and scheduling tasks associated with preparation for UTA weekend, mobility requirement, and the Battle Damage Program.

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, Meeting, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE												
WORK CENTER TITLE/CODE			STANDARD APPLICABILITY MANHOUR RANGE									
Autoflight/Instruments/24150E (C-130E)			218.80 - 420.77									
AIR FORCE SPECIALITY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
Comm & Nav Systems	455X2A	Civ	2	3								
TOTAL			2	3								
AIR FORCE SPECIALITY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
TOTAL												