

DACUM CHART FOR

Aircraft Maintenance (Airframe & Engine Systems) Technician

DACUM PANEL

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April 10, 2002

DACUM CHART FOR AIRCRAFT MAINTENANCE (AIRFRAME & ENGINE SYSTEMS) TECHNICIAN

April 10, 2002

Duties

Tasks

A	Perform general maintenance work

A1	Maintain hand tools <i>NAJ</i>	A2	Service maintenance equipments	A3	Hoist aircraft components	A4	Assist in towing aircraft	A5	Jack-up aircraft
A6	Update aircraft maintenance documentation	A7	Lubricate aircraft components	A8	Inspect fire extinguishers	A9	Assist in aircraft weighting & balancing	A10	Inspect avionic wirings
A11	Inspect wiring accessories	A12	Fasten aircraft components						

Duties

Tasks

E Service aircraft hydraulic system
F Service aircraft flight control system

D6 Assist in overhauling engine	D7 Install engine accessories	D8 Assist in engine rigging	D9 Assist in engine trimming	D10 Conduct engine ground run
E1 Service hydraulic reservoirs	E2 Service hydraulic accumulators	E3 Replace hydraulic filters	E4 Dis-assemble aircraft hydraulic system	E5 Assemble aircraft hydraulic system
E6 Install hydraulic line & fitting	E7 Repair hydraulic pumps	E8 Repair hydraulic motors	E9 Replace hydraulic cylinders	E10 Replace control valves
E11 Perform flow meter test	E12 Assist in conducting hydraulic system pressure test			
F1 Inspect aircraft flight control surfaces	F2 Install aircraft flight control surfaces	F3 Perform rigging functional test on flight control surfaces	F4 Perform functional checks on flight control system	F5 Assist in balancing flight control system

Duties

G	Service aircraft pneumatic system
H	Service aircraft fuel system

Tasks

G1	Perform leakage check	G2	Service air pumps	G3	Replace air filters	G4	Remove oil & water traps	G5	Repair pneumatic components
G6	Service air storage bottles	G7	Assist in performing functional test on pneumatic system	H1	Check fuel for water contamination	H2	Top up aircraft fuel	H3	Discharge aircraft fuel
H7	Repair jettison pumps	H8	Repair boost pumps	H4	Service fuel tank	H6	Replace fuel valves	H9	Assist in mounting/dis-mounting fuel tank

Duties

Tasks

<p>I</p> <p>Service aircraft environment system</p>			<p>J</p> <p>Service aircraft landing gear system</p>
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<p>I1</p> <p>Service air-conditioning compressors</p>	<p>I6</p> <p>Service water separators</p>	<p>I11</p> <p>Replace inflatable door seals</p>	<p>J1</p> <p>Service aircraft tyres</p>
<p>I2</p> <p>Service air-conditioning pumps</p>	<p>I7</p> <p>Service control valves</p>	<p>I12</p> <p>Assist in functional test on pressure control system</p>	<p>J2</p> <p>Service aircraft wheels</p>
<p>I3</p> <p>Service air-conditioning blowers</p>	<p>I8</p> <p>Service cabin pressure regulators</p>		<p>J3</p> <p>Service aircraft brakes</p>
<p>I4</p> <p>Service heat exchangers</p>	<p>I9</p> <p>Service safety & relief valves</p>		<p>J4</p> <p>Service aircraft shock struts</p>
<p>I5</p> <p>Service air cycle machines</p>	<p>I10</p> <p>Service out-flow valves</p>		<p>J5</p> <p>Assist in performing functional check on landing gear system</p>

DACUM CHART FOR Aircraft Maintenance (Airframe & Engine Systems) Technician

General Knowledge and Skills

- Technical aptitude
- Good with hands
- Knowledge of aeroplane
- Service manual interpretation
- Communication Skills
- Listening skills
- Analytical Skills

Worker Behaviours

- Safety Conscious
- Technically savvy
- Responsible
- Self-motivating/initiative
- Team player
- Approach work in a systematic and thorough way
- Integrity
- Confident
- Reliable
- Dependability
- Interdependent
- Hardworking

Future Trends / Concerns

- Employers look for trained & qualified technician
- Technological advances in control systems

Tools, Equipment, Supplies & Materials

Tools

- Cable tensiometer
- Common handtools
- Clinometer
- Dial indicators
- Feeler gauge
- Hand held power drill
- Limit gauge
- Magnifying glass
- Metal shear
- Micrometer
- Rigging pins
- Riveter
- Spirit level
- Straight edge
- Riveting tool
- Screw and bearing extractor
- Spring push and pull scale
- Telescopic gauge
- Torque wrench
- Vernier caliper
- Wire gauge
- Wire twister

Equipment

- Aircraft jacks
- Air compressor
- Bonding tester
- Boroscope
- Gas turbine starting unit
- Ground power unit
- Heat gun
- High tension leads
- Hoisting equipment
- Hydraulic rig
- Insulation resistance tester
- Manometer
- Pressure & vacuum gauge
- Pillar drilling machine
- Pedestal grinder

Materials

- Acrylic sheets
- Bars
- Chemical solutions
- Cleaning solutions
- Composite materials
- Corrosion inhibitors
- Degreasing agents
- Fuel additives
- Hoses and pipes
- Preservation oil
- Sheetmetal
- Sealants
- Standard parts
- Tubes & hoses

Plant/Machinery

- Pillar drilling machine
- Pedestal grinder