

Section 2.1 - Basic Skills Record

Date	Competence	Licence Category	Service Number	Assessor's Rank, Name and Signature
General Air System Maintenance				
	Awareness of hazards when working with Air System – noise, heat, moving surfaces, rotables, intakes, exhausts, safety devices.	A, B1, B2		
	Safety precautions when using fluids, gases and chemicals.	A, B1, B2		
Mechanical Fitting Practices (Common)				
	Related safety practices.	B1		
	Use a range of hand tools and power tools to achieve a dimensional accuracy of 0.010 in/0.25mm.	B1		
	Interpret and work to engineering drawings.	B1		
	Use basic tools and equipment for: cutting, forming, and joining commonly used materials (ferrous and non-ferrous).	B1		

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Mechanical Fitting Practices (Common)(cont'd)				
	Mark out using measuring equipment eg micrometers, rulers, Vernier callipers, Vernier height gauges, squares, vee blocks and surface tables.	B1		
	Select and use feeler, slip, limit, go/no go gauges.	A, B1		
	Fit and remove thread inserts.	A, B1		
	Drill and tap a threaded hole.	B1		
	Drill and ream perpendicular holes in ferrous and non-ferrous materials.	B1		
Assembly/Disassembly Practices (Common)				
	Apply correct procedures: Material storage and handling.	B1, B2		

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Assembly/Disassembly Practices (Common)(cont'd)				
	Identification of a range of materials.	B1, B2		
	Cleaning and contamination control.	A, B1, B2		
	Use of a range of common assembly and disassembly tools plus specific application tools. A, B1, B2 Adjust, set and use torque wrenches.	A, B1, B2		
	Identify standards and specifications of common use parts ie nuts, bolts, washers and split pins.	A, B1, B2		
	Identify part numbers and serial numbers from an approved component overhaul manual or illustrated parts catalogue.	A, B1, B2		
	Fit and remove a range of common use components eg split pins, tabs, spring and plain washers, plain and lock nuts.	A, B1, B2		
	Demonstrate competence when wire locking a variety of assemblies.	A, B1, B2		

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Assembly/Disassembly Practices (Common)(cont'd)								
	Measure shafts, bores, flanges, and adjacent surfaces using a variety of precision measuring instruments and record dimensions.	B1						
	Disassemble and assemble an Air System component IAW manufacturers overhaul manual.	B1, B2						
Wiring and Looming (Common)								
	Identify cables and cable values by reference to Maintenance manuals.	B1, B2						
	Identify a range of electrical component symbols.	B1, B2						
	Interpret a range of electrical wiring diagrams and schematic circuits.	B1, B2						
	Select and use appropriate cable stripping tools.	B1, B2						
	Using at least two crimping systems, select appropriate cable crimping tools and crimp cables to prepare cable ends or plug/socket terminals.	B1, B2						
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Wiring and Looming (Common)(cont'd)								
	Solder cables to single and multi-pin connectors/tag boards.	B1, B2						
	Check an Air System electrical circuit for continuity in conjunction with an electrical wiring diagram.	B1, B2						
	Carry out basic fault-finding techniques using a range of test meters/equipment.	B1, B2						
	Prepare and install a simple loom, using at least two binding methods.	B1, B2						
	Discuss and demonstrate the use of a range of test meters/equipment to measure voltage, current, and resistance in practical task circumstances.	B1, B2						
	Carry out bonding and insulation tests.	B1, B2						
	Explain/demonstrate how to inspect Air System areas for HIRF protection.	B1, B2						
	Carry out inspection for lightning strike protection.	A, B1, B2						
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Wiring and Looming (Common)(cont'd)								
	Insert/extraction of electrical inserts in a variety of electrical connectors.	B1, B2						
	Inspection of electrical cable looms/bundles and cable trunking.	B1, B2						
Electrical Power/Avionic Systems (Common)								
	Reading and interpretation of electrical schematic and wiring diagrams.	B1, B2						
	Replace a range of Avionic LRUs and operate associated BITE.	B1, B2						
	Remove/Refit Power Distribution Control & Protection equipment.	B1, B2						
	Generator power check/voltage adjustment.	B1, B2						
	Internal lighting bulb and filament changes.	A, B1, B2						
	Replacement of ovens, boilers and beverage makers.	A, B1						
	Compass/Standby Compass compensation swing and calculations.	B1, B2						
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Electrical Power/Avionic Systems (Common)(cont'd)				
	Implement ESD procedures.	A, B1, B2		
Sheet Metal Practices				
	Use a range of hand tools, folding and bending machines and guillotine to shape aluminium alloy to achieve an accuracy of: ± 0.5 x bend angle, ± 0.030 ins/0.075 mm.	B1		
	Interpret engineering drawings and calculate size of material required to produce a component of material with one or two bends.	B1		
	Bend metal to a bend radius, angle and dimensions as given by an engineering drawing.	B1		
	Use a range of hand & power tools to position rivet holes to an accuracy of: ± 0.030 ins/0.75 mm.	B1		
	Identify a range of solid and blind rivets and fasteners.	B1		
	Identify, select and use a range of rivet setting equipment.	B1		
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Sheet Metal Practices (cont'd)				
	Set a range of rivets in aluminium sheet. Range to include raised and countersunk rivets.	B1		
	Select and use a range of rivet closing tools.	B1		
	Select and use sheet-gripping pins.	B1		
	Identify rivet setting faults.	B1		
	Remove defective rivets without causing further damage to skin.	B1		
	Select and install oversize rivets as instructed in SRM.	B1		
	Set a range of other fasteners in aluminium sheet.	B1		
	Removal of corrosion and re-protection of aluminium sheet.	B1		
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Sheet Metal Practices (cont'd)				
	Cut and shape material to required profile, finish edges and deburr using approved procedures.	B1		
Composite and Non-Metallic Practices (other than wood and fabric)				
	Identification of the characteristics and properties of common composite and non-metallic materials other than wood and fabric.	A, B1, B2		
	Identification of sealing and bonding agents.	A, B1, B2		
	Detection of defects/deterioration in composite and non-metallic material.	A, B1		
	Repair of composite and non-metallic materials and structures.	A, B1		
	Inspection of a structure using a mirror and light source.	A, B1		
	Use at least one of the following NDT procedures: dye penetrant or fluorescent dye.	B1		
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Maintenance Practices								
	Remove & replace a range of flexible hoses including clips and brackets.	A, B1						
	Remove and replace a range of rigid pipes, including clips and brackets.	A, B1						
	Locate components using a referencing system, eg station numbers.	B1						
	Carry out heavy landing/turbulence check.	A, B1						
	Assist in the raising/lowering of an Air System on or off jacks.	A, B1						
	Jack an Air System level to rigging position.	A, B1						
	Assist in the towing of an Air System.	A, B1						
	Remove and refit a range of Air System panels.	A, B1						
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Maintenance Practices (cont'd)				
	Lubrication of bearings, flight controls and undercarriage.	A, B1		
	Daily Flight Servicing (DFS): a) Conduct DFS, including the raising of MF700C entries (eg fuel state). b) Check & replenish oil, hydraulic and pneumatic systems and tyre pressures.	A, B1		
	Technical Flight Servicing (TFS): a) Conduct and record TFS, including Supplementary Flight Servicing. b) Connect and use correctly, ground electrical power.	A, B1		
	Replenish oxygen system.	A, B1		
	Inspect engine using boroscope.	B1		
	Assist in pressurisation test.	B1		
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Maintenance Practices (cont'd)				
	Operational check of ground power.	A, B1		
	Carry out VHF Radio check.	B1		
	Remove/refit Main and APU batteries.	A, B1, B2		
	Remove/refit Emergency battery.	A, B1, B2		
	Replace carpets.	A, B1		
	Replace crew seats.	A, B1, B2		
	Replace passenger seats.	A, B1		
	Check seatbelts for serviceability.	A, B1		
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Maintenance Practices (cont'd)				
	Replace and test a range of Airframe/engine system components/boards.	B1		
	Check emergency equipment.	A, B1		
	Functional test of emergency equipment.	A, B1		
	Inspect and test Engine and Airframe fire detecting systems.	B1		
	Inspection and functional testing of fire protection systems.	B1		
	Replace fire bottle.	B1		
	Removal/refit of Flight Control and subsequent rigging of system.	B1		
	Functional checks on hydraulically operated flight controls.	B1		
	Hydraulic PFCU change.	B1		
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Maintenance Practices (cont'd)				
	Replace and test fuel pump.	B1		
	Hydraulic reservoir inspection, fluid replenishment and recharging.	A, B1		
	Hydraulic system component changes.	B1		
	Engine driven hydraulic pump change (EDP).	B1		
	Electrical hydraulic pump change (ACMP).	B1		
	Hydraulic pump quill drive inspection.	B1		
	Functional test of windscreen wiper system.	A, B1		
	Removal/refit of windscreen wiper blade.	A, B1		
Logbook Owner:		Signature:		
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Maintenance Practices (cont'd)				
	Wheel removal/installation.	A, B1		
	Wheel brake removal/installation.	A, B1		
	Bleed hydraulic brakes.	A, B1		
	Replace oleo seals.	B1		
	Functional test of anti-skid system.	B1		
	Replace vacuum pump.	B1		
	Retrieve data from central Maintenance system (CMU).	B1		
	Assist in APU removal/refit.	B1		
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Maintenance Practices (cont'd)				
	Windows & Transparencies cleaning and polishing.	A, B1		
	Replacement of door seals.	B1		
	Remove/refit cockpit windshield.	B1		
	Assist in power plant removal/refit.	B1		
	Rig engine thrust lever.	B1		
	Replenish water/methanol system.	A, B1		
	Application of one/two component sealers and compounds.	B1		
Logbook Owner:		Signature:		

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Maintenance Practices (cont'd)								
	Assist in propellor removal/refit.	B1						
	Check propellor track.	B1						
	Mooring and picketing (helicopter only).	A3, B1.3						
	Removal/refit main rotor head (helicopter only).	B1.3						
	Removal/refit transmission driveshaft (helicopter only).	B1.3						
	Removal/refit main rotor gearbox (helicopter only).	B1.3						
	Removal/refit tail rotor (helicopter only).	B1.3						
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Maintenance Practices (cont'd)				
	Flight control rigging.	B1		
	Main rotor track and balance (helicopter only).	B1.3		
	VHF comms LRU replacement and communication check.	B2		
	HF LRU replacement and communication check.	B2		
	VHF nav LRU replacement and system tests.	B2		
	Aerial replacement (various).	B2		
	Radio standing wave (VSWR) measurement tests.	B2		
	ATC/TCAS system component replacement and tests.	B2		
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Maintenance Practices (cont'd)								
	Intercommunication/passenger address component replacement and tests.	B2						
	Removal/installation of pitot static instruments.	B1, B2						
	Check calibration of a pitot static system using a pitot static leak tester.	B1, B2						
	Inertial reference unit/platform initialisation check.	B2						
	Test ILS/VOR systems using appropriate test equipment eg Nav 401/402.	B2						
	Gyroscopic instrument component replacements and functional tests.	B2						
	Fuel quantity indicating functional testing.	B2						
	General engine and Air System temperature/pressure and flow instrumentation component replacement and testing.	B2						
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Maintenance Practices (cont'd)				
	Flight director system functional tests.	B2		
	Radio altimeter system test utilising appropriate (555) test set.	B2		
	DME functional testing utilising appropriate test set.	B2		
	Weather radar system component replacements and functional testing.	B2		
	Auto throttle systems experience and functional testing (optional, fixed wing only).	B2		
	Automatic flight modes experience and functional testing (optional, fixed wing only).	B2		
	Stability augmentation systems experience and functional testing (optional, helicopters only).	B2		
	ADF component replacements and functional tests.	B2		
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Maintenance Practices (cont'd)				
	Discuss/demonstrate typical Maintenance practices on electronic flight instrument systems.	B2		
	Discuss/demonstrate typical Maintenance practices on flight management systems.	B2		
Military Systems				
	Military comms (secure, link16, datalinks, etc).	B2		
	Weapons.	A, B1, B2		
	Observation/Targeting (EO/IR sights).	B2		
	Targeting (radar).	B2		
	Crew escape systems (AAES/CES).	A, B1		
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Military Systems (cont'd)				
	Laser systems.	B1, B2		
	EFD/HUMS.	A, B1, B2		
	Cargo systems (inc jettison).	A, B1		
	IR lighting.	A, B1, B2		
	Defence Aid Suite (RWR, LWR, etc).	B2		
	Countermeasures.	A, B1, B2		

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