

	Level		
	A	B1	B2
<p>7.1 Safety Precautions-Aircraft and Workshop</p> <p>Aspects of safe working practices including precautions to take when working with electricity, gases especially oxygen, oils and chemicals.</p> <p>Also, instruction in the remedial action to be taken in the event of a fire or another accident with one or more of these hazards including knowledge on extinguishing agents.</p>	3	3	3
<p>7.2 Workshop Practices</p> <p>Care of tools, control of tools, use of workshop materials;</p> <p>Dimensions, allowances and tolerances, standards of workmanship;</p> <p>Calibration of tools and equipment, calibration standards.</p>	3	3	3
<p>7.3 Tools</p> <p>Common hand tool types;</p> <p>Common power tool types;</p> <p>Operation and use of precision measuring tools;</p> <p>Lubrication equipment and methods.</p> <p>Operation, function and use of electrical general test equipment;</p>	3	3	3
<p>7.4 Avionic General Test Equipment</p> <p>Operation, function and use of avionic general test equipment.</p>	—	2	3
<p>7.5 Engineering Drawings, Diagrams and Standards</p> <p>Drawing types and diagrams, their symbols, dimensions, tolerances and projections;</p> <p>Identifying title block information;</p> <p>Microfilm, microfiche and computerised presentations;</p> <p>Specification 100 of the Air Transport Association (ATA) of America;</p> <p>Aeronautical and other applicable standards including ISO, AN, MS, NAS and MIL;</p> <p>Wiring diagrams and schematic diagrams.</p>	1	2	2

	Level		
	A	B1	B2
7.6 Fits and Clearances	1	2	1
Drill sizes for bolt holes, classes of fits;			
Common system of fits and clearances;			
Schedule of fits and clearances for aircraft and engines;			
Limits for bow, twist and wear;			
Standard methods for checking shafts, bearings and other parts.			
7.7 Electrical Cables and Connectors	1	2	2
Continuity, insulation and bonding techniques and testing;			
Use of crimp tools: hand and hydraulic operated;			
Testing of crimp joints;			
Connector pin removal and insertion;			
Co-axial cables: testing and installation precautions;			
Wiring protection techniques: Cable looming and loom support, cable clamps, protective sleeving techniques including heat shrink wrapping, shielding.			
7.8 Riveting	1	2	—
Riveted joints, rivet spacing and pitch;			
Tools used for riveting and dimpling;			
Inspection of riveted joints.			
7.9 Pipes and Hoses	1	2	—
Bending and belling/flaring aircraft pipes;			
Inspection and testing of aircraft pipes and hoses;			
Installation and clamping of pipes.			
7.10 Springs	1	2	—
Inspection and testing of springs.			
7.11 Bearings	1	2	—
Testing, cleaning and inspection of bearings;			
Lubrication requirements of bearings;			
Defects in bearings and their causes.			

	Level		
	A	B1	B2
7.12 Transmissions	1	2	—
Inspection of gears, backlash;			
Inspection of belts and pulleys, chains and sprockets;			
Inspection of screw jacks, lever devices, push-pull rod systems.			
7.13 Control Cables	1	2	—
Swaging of end fittings;			
Inspection and testing of control cables;			
Bowden cables; aircraft flexible control systems.			
7.14 Material handling			
7.14.1 Sheet Metal	—	2	—
Marking out and calculation of bend allowance;			
Sheet metal working, including bending and forming;			
Inspection of sheet metal work.			
7.14.2 Composite and non-metallic	—	2	—
Bonding practices;			
Environmental conditions			
Inspection methods			
7.15 Welding, Brazing, Soldering and Bonding			
(a)	—	2	2
Soldering methods; inspection of soldered joints.			
(b)	—	2	—
Welding and brazing methods;			
Inspection of welded and brazed joints;			
Bonding methods and inspection of bonded joints.			
7.16 Aircraft Weight and Balance			
(a)	—	2	2
Centre of Gravity/Balance limits calculation: use of relevant documents;			
(b)	—	2	—
Preparation of aircraft for weighing;			
Aircraft weighing;			

	Level		
	A	B1	B2
7.17 Aircraft Handling and Storage	2	2	2
Aircraft taxiing/towing and associated safety precautions;			
Aircraft jacking, chocking, securing and associated safety precautions;			
Aircraft storage methods;			
Refuelling/defuelling procedures;			
De-icing/anti-icing procedures;			
Electrical, hydraulic and pneumatic ground supplies.			
Effects of environmental conditions on aircraft handling and operation.			
7.18 Disassembly, Inspection, Repair and Assembly Techniques			
(a)	2	3	2
Types of defects and visual inspection techniques.			
Corrosion removal, assessment and re-protection.			
(b)	—	2	—
General repair methods, Structural Repair Manual;			
Ageing, fatigue and corrosion control programmes;			
(c)	—	2	1
Non destructive inspection techniques including, penetrant, radiographic, eddy current, ultrasonic and boroscope methods.			
(d)	2	2	2
Disassembly and re-assembly techniques.			
(e)	—	2	2
Trouble shooting techniques			
7.19 Abnormal Events			
(a)	2	2	2
Inspections following lightning strikes and HIRF penetration.			
(b)	2	2	—
Inspections following abnormal events such as heavy landings and flight through turbulence.			

	Level		
	A	B1	B2
7.20 Maintenance Procedures	1	2	2
Maintenance planning;			
Modification procedures;			
Stores procedures;			
Certification/release procedures;			
Interface with aircraft operation;			
Maintenance Inspection/Quality Control/Quality Assurance;			
Additional maintenance procedures.			
Control of life limited components			