

Subject: Maintenance Practices Part B**Theory**

Topics	Level
7.8 Riveting Riveted joints, rivet spacing and pitch; Tools used for riveting and dimpling; Inspection of riveted joints.	2
7.9 Pipes and Hoses Bending and belling/flaring aircraft pipes; Inspection and testing of aircraft pipes and hoses; Installation and clamping of pipes.	2
7.10 Springs Inspection and testing of springs.	2
7.11 Bearings Testing, cleaning and inspection of bearings; Lubrication requirements of bearings; Defects in bearings and their causes	2
7.12 Transmissions Inspection of gears, backlash; Inspection of belts and pulleys, chains and sprockets; Inspection of screw jacks, lever devices, push-pull rod systems	2
7.13 Control Cables Swaging of end fittings; Inspection and testing of control cables; Bowden cables; aircraft flexible control systems	2
7.14 Material handling 7.14.1 Sheet Metal 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 Bonding practices; Environmental conditions Inspection methods	2
7.16 Aircraft Weight and Balance Centre of Gravity/Balance limits calculation: use of relevant documents Preparation of aircraft for weighing; Aircraft weighing	2
7.17 Aircraft Handling and Storage 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.	2
7.18 Disassembly, Inspection, Repair and Assembly Techniques Types of defects and visual inspection techniques.	2

<p>Corrosion removal, assessment and re-protection General repair methods, Structural Repair Manual; Ageing, fatigue and corrosion control programmes; Nondestructive inspection techniques including, penetrant, radiographic, eddy current, ultrasonic and boroscope methods Disassembly and re-assembly techniques Trouble shooting techniques</p>	
<p>7.19 Abnormal Events Inspections following lightning strikes and HIRF penetration. Inspections following abnormal events such as heavy landings and flight through turbulence</p>	2
<p>7.20 Maintenance Procedures 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</p>	2