

Per rimuovere la limitazione "Excluding Helicopters above 5700 Kg" per la Categoria B2

Nota: la definizione di livello è quella indicata nell'appendice 1 alla Parte 66.

MODULE 6 - MATERIALS AND HARDWARE	
6.1 Aircraft Materials — Ferrous	
<ul> <li>(a) Characteristics, properties and identification of common alloy steels used in aircraft;</li> <li>Heat treatment and application of alloy steels;</li> </ul>	Lev. 1
(b) Testing of ferrous materials for hardness, tensile strength, fatigue strength and impact resistance.	Lev. 1
6.2 Aircraft Materials — Non-Ferrous	
<ul> <li>(a) Characteristics, properties and identification of common non-ferrous materials used in aircraft;</li> <li>Heat treatment and application of non-ferrous materials;</li> </ul>	Lev. 1
(b) Testing of non-ferrous material for hardness, tensile strength, fatigue strength and impact resistance.	Lev. 1
6.3 Aircraft Materials — Composite and Non-Metallic	
6.3.1 Composite and non-metallic other than wood and fabric	
(a) Characteristics, properties and identification of common composite and non-metallic materials, other than wood, used in aircraft; Sealant and bonding agents.	Lev. 2
6.4 Corrosion	
(a) Chemical fundamentals; Formation by, galvanic action process, microbiological, stress;	Lev. 1
(b) Types of corrosion and their identification; Causes of corrosion; Material types, susceptibility to corrosion.	Lev. 2
6.5 Fasteners	
<b>6.5.1 Screw threads</b> Screw nomenclature; Thread forms, dimensions and tolerances for standard threads used in aircraft; Measuring screw threads;	Lev. 2
6.5.2 Bolts, studs and screws	
Bolt types: specification, identification and marking of aircraft bolts, international standards; Nuts: self locking, anchor, standard types; Machine screws: aircraft specifications; Studs: types and uses, insertion and removal; Self tapping screws, dowels.	Lev. 2
6.5.3 Locking devices	
Tab and spring washers, locking plates, split pins, pal-nuts, wire locking, quick release fasteners, keys, circlips, cotter pins.	Lev. 2
6.5.4 Aircraft rivets Types of solid and blind rivets: specifications and identification, heat treatment.	Lev. 1
6.6 Pipes and Unions	
(a) Identification of, and types of rigid and flexible pipes and their connectors used in aircraft;	Lev. 2
(b) Standard unions for aircraft hydraulic, fuel, oil, pneumatic and air system pipes.	Lev. 1



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6.7 Springs Types of springs, materials, characteristics and applications.	Lev. 1
<b>6.8 Bearings</b> Purpose of bearings, loads, material, construction; Types of bearings and their application.	Lev. 2
<b>6.9 Transmissions</b> Gear types and their application; Gear ratios, reduction and multiplication gear systems, driven and driving gears, idler gears, mesh patterns; Belts and pulleys, chains and sprockets.	Lev. 2
6.10 Control Cables Types of cables; End fittings, turnbuckles and compensation devices; Pulleys and cable system components;	Lev. 1
Bowden cables; Aircraft flexible control systems.	

MODULE 7 - MAINTENANCE PRACTICES	
7.6 Fits and Clearances	
Drill sizes for bolt holes, classes of fits;	Lev. 1
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.	
7.16 Aircraft Weight and Balance	
(a) Centre of Gravity/Balance limits calculation: use of relevant documents;	
	Lev. 2
7.17 Aircraft Handling and Storage	
Aircraft taxiing/towing and associated safety precautions;	Lev. 2
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.	

Continua



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MODULE 13 - AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS	
13.10 On board Maintenance Systems (ATA 45)	
Central maintenance computers;	Lev. 3
Data loading system;	
Electronic library system;	
Printing;	
Structure monitoring (damage tolerance monitoring).	

MODULE 14 - PROPULSION	
14.1 Turbine Engines	
(a) Constructional arrangement and operation of turboshaft engines;	Lev. 1
(b) Electronic Engine control and fuel metering systems (FADEC).	Lev. 2
<ul> <li>14.2 Engine Indicating Systems</li> <li>Exhaust gas temperature/Interstage turbine temperature systems;</li> <li>Engine speed;</li> <li>Engine Thrust Indication: Engine Pressure Ratio, engine turbine discharge pressure or jet pipe pressure systems;</li> <li>Oil pressure and temperature;</li> <li>Fuel pressure, temperature and flow;</li> <li>Manifold pressure;</li> </ul>	Lev. 2
Engine torque; Propeller speed. <b>14.3 Starting and Ignition Systems</b> Operation of engine start systems and components; Ignition systems and components; Maintenance safety requirements;	Lev. 2

**Domande di esame** (a risposta multipla): 100 **Durata esame**: 125 minuti