

License without type rating
Category " A " Unpressurized Aeroplanes
less than 5700 kg with piston engines

1- A/C Structures:

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- Main structures - fuselage / wing
 - Stressed skin - diaphragms and longerons
 - Tubular structures
 - Skin, frames and stiffening
 - Wing: spar and rib structures
 - Integral fuel tanks
 - Load patches
 - Empenage
 - Windows, door and hatches

3- Flight controls:

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- Aileron, Elevator, Rudder
 - Operating systems and surfaces - manually operated
 - Trim operating systems and surfaces - manual and electric
 - Flap systems - electrical, hydraulic and manual
 - Simple asymmetric protection
 - Slat systems - automatic and manual
 - Tab systems - trim, balance, servo, anti-balance, spring servo
 - Stall sensing and warning - simple systems e.g. vane or reed types
 - Basic auto pilots - simple systems
 - Inputs into main controls - function testing - attitude, heading and height sensing

5- Hydraulic:

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- Simple systems, i.e. powered pump reverse selection, pressure relief, pressure regulation LP and HP filters
 - Types of pump
 - Differing fluids - mineral / fire - resistant
 - Control and indication methods

7- Landing Gear and Brakes:

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- Wheels, tires, shock absorbers, castering, steering methods
 - Simple hydraulic brakes, i.e. master cylinder to wheel-brake unit
 - Brake discs and calipers
 - Landing and braking energy conversion

9- Electrical:

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- Simple type systems
 - Batteries, generators, inverters
 - Voltage control
 - Current limiting
 - Control and indications

11- instruments (Other than Engine):

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- Pilot / static systems and associated instruments
 - Gyro instruments - Vacuum / Pressure / Electrical
 - Pressure and temperature indication
 - Position indication
 - Compasses

13- Radio:

- - VHF communication systems

15- Ice and Rain protection:

- - Liquid, electric and boot systems
- Power source, control and indication
- Wind screen wipers

17- Heating and Ventilation:

- - Combustion heaters, exhaust heat exchangers
- Ram air
- Ventilation fans

19- Oxygen:

- - Bottle storage, distribution, regulation masks
- Safety features and requirements

21- Vacuum / Pressure:

- - Dry and wet pump systems
- Oil separation
- Gyro supply
- Relief valve
- Filtering
- Aerofoil anti-icing

23- Safety Equipment:

- - Fire extinguishers - hand
- Life jackets
- Life rafts
- Seat belts / harness - passenger / crew 3 - point , 4 - point , inertial , lap straps

25- Ground Handling:

- - Jacking, trestling, slinging, towing, tie down
- Servicing activities
- Storage
- Painting - protective finish / external markings
- Weighing and centre of gravity determination – weighing report, scale positions, basic weight, unusable fuel, oil and other consumable liquids - quantities, tolerances , hold /seat row /removable equipment
- Station identification
- C of G datum

27- Technical Information:

- - Maintenance manuals, parts catalogues, overhaul manuals
- Service bulletin and modification data Maintenance schedules: approved and otherwise