

Syllabus for issuing a LWTR for Aeroplanes
less than 5700 KG
*** Paper II : Avionics**

1- Pitot - static system and instruments:

Air speed indicator - Vertical speed indicator - Altimeter -
Pitot probes - Static vents - pipe lines - Flexible Hoses -
Drain Traps - Altitude and Air speed switches, etc)
- Testing and maintenance practices

3- Vacuum system:

Components & function of each unit - sources - controls - adjustment- Indications

5- Stall warning system:

Basic principle of operation - Testing - adjustment

4- Flight data recorder:

Requirements - sensors and inputs - failure monitor

5- Synchro:

Types - Basic principle - Applications

6- Aircraft Attitude system:

Gyroscopes - Indications

7- Compass:

- Direct reading magnetic compass (Installation - Testing)
- Flux detectors and remote sensors

8- Auto pilot system:

Modes - Inputs - Control panel

9- Flight Director System:

Modes - Inputs - Displays

10- Basic Aircraft (Communication / Navigation) systems:

Principle of operation, components and function check for:
"Interphone - Passenger address - VHF - HF - Cockpit Voice Recorder-
ADF - VOR - ILS - ELT "

11- Basic Aircraft pulse Navigation system :

Principle of operation, components and function check for:
" Weather Radar - Radio Altimeter - DME - ATC - Sattalite communication &
Navigation system (GPS)