

Flight navigation general (aeroplane & helicopter) syllabus

This syllabus includes all the items in the CPL and instrument rating (IR) navigation syllabuses and may examine those items in greater depth.

Form of the earth:

Knowledge of illustrations of spheroid, axis, poles, great circle, small circle, rhumb line, the geographical system of latitude and longitude, equator, prime meridian, date-line, departure, convergency, conversion angle, projection, scale, representative fraction and orthomorphism.

Visibility:

The determination of visual range from an aircraft in flight.

The moon:

General knowledge of the movements of the Sun, Earth and Moon, the phases of the Moon, the times of rising and setting of the Moon at the various phases.

Relative velocity:

The solution of problems.

Wind velocity:

Methods of determination.

Position lines:

Use and correction where appropriate of visual, radio and radar observations to determine position.

Fuel calculations:

Specific gravity of fuel, variation of fuel volume with change of temperature.