

SECTION 1.9 OPERATIONS, PERFORMANCE AND PLANNING (OP)

Unit 1.9.1 POPC: PPL operations, performance and planning – all aircraft categories

1. Reserved

2. General flight planning and performance

2.1 Loading

2.1.1 Describe the following terms:

- (a) arm, moment, datum, station, index unit;
- (b) centre of gravity (CG) and CG limits;
- (c) empty weight, zero fuel weight (ZFW), ramp weight;
- (d) maximum take-off and maximum landing weights;
- (e) floor loading limits.

2.2 Speed limitations

2.2.1 Explain the following terms/abbreviations:

- (a) normal operating speed (V_{no});
- (b) never exceed speed (V_{NE});
- (c) maximum manoeuvre speed (V_A);
- (d) turbulence penetration speed (V_B);
- (e) limit and design load factors;
- (f) flap operating speed (V_{FO}) and flap extended speed (V_{FE}).

2.2.2 Describe situations which may result in an aircraft exceeding speed limits and load factor limits.

2.3 ERSA

2.3.1 Apply all items of information contained in ERSA which are relevant to VFR (day) operations.

2.4 Flight plan preparation

2.4.1 Apply the responsibilities of a pilot in command with regard to weather and operational briefing prior to planning a VFR flight.

2.4.2 Given a route:

- (a) select appropriate visual charts for the flight;
- (b) list the operations for which it is mandatory to obtain meteorological and operational briefing;
- (c) list the weather services available, and nominate the sources and methods of obtaining this information;
- (d) apply CASA requirements/instructions for flight notification of VFR flights and state the preferred methods of submitting this notification;

2.4.3 Given an aerodrome forecast, determine whether holding or alternate requirements apply and if so:

- (a) nominate an appropriate alternate aerodrome;
- (b) determine the quantity of additional fuel required for holding or flight to the alternate.

2.5 PPL – completion standard

2.5.1 Given:

- (a) a departure place and 2 landing points;
- (b) weather and operational briefing;
- (c) passenger and/or baggage requirements;