

## Subject No. 4 PPL Air Law (Aeroplane and Helicopter)

Each subject has been given a subject number and each topic within that subject a topic number. These reference numbers will be used on knowledge deficiency reports and will provide valuable feedback to the examination candidate. These topic reference numbers may be common across the subject levels and therefore may not be consecutive within a specific syllabus.

| <b>Sub Topic</b> | <b>Syllabus Item</b>  |
|------------------|---|
|                  | <b>General</b>  |
| <b>4.2</b>       | <b>Aviation Legislation</b>   |
| 4.2.2            | Describe the requirements to hold an aviation document, as laid down in Civil Aviation (CA) Act 1990 S7.                                  |
| 4.2.4            | Describe the criteria for the fit and proper person test, as laid down in CA Act 1990 s10.  |
| 4.2.6            | Describe the duties of the pilot-in-command, as laid down in CA Act 1990 s13 and 13A.   |
| 4.2.8            | Describe the responsibilities of a licence holder with respect to changes in their medical condition, as laid down in CA Act 1990 S27.    |
| 4.2.10           | Describe the responsibilities of a licence holder with respect to the surrender of a medical certificate as laid down in CA Act 1990 S27. |
| 4.2.12           | Describe the responsibilities of a licence holder with respect to safety offences, as laid down in CA Act 1990 ss43 and 44.               |
| <b>4.4</b>       | <b>Definitions</b>  |
|                  | Part 1 (unless otherwise noted)   |
|                  | State the definition of:  |
|                  | (a) accident;   |
|                  | (b) Act;  |
|                  | (c) aerobatic flight;   |
|                  | (d) aerodrome; (AIP GEN)  |
|                  | (e) aerodrome elevation; (AIP GEN)  |
|                  | (f) aerodrome operational area;   |
|                  | (g) aerodrome traffic circuit;  |
|                  | (h) aeronautical information circular;  |
|                  | (i) aeronautical information publication (AIP);   |
|                  | (j) AIP supplement;   |

| <b>Sub Topic</b> | <b>Syllabus Item</b>                                     |
|------------------|--|
|                  | (k) air traffic control (ATC) service;                   |
|                  | (l) airworthiness certificate;                           |
|                  | (m) airworthy condition;                                 |
|                  | (n) alerting service;                                    |
|                  | (o) altitude;  |
|                  | (p) apron; (AIP GEN)                                     |
|                  | (q) ATC clearance;                                       |
|                  | (r) ATC instruction;                                     |
|                  | (s) aviation event;                                      |
|                  | (t) AWIB service;  |
|                  | (u) basic weather report;                                |
|                  | (v) ceiling;   |
|                  | (w) controlled flight;                                   |
|                  | (x) cost sharing flight;                                 |
|                  | (y) cross-country flight;                                |
|                  | (z) dangerous goods;                                     |
|                  | (aa) day;  |
|                  | (bb) dual flight time;                                   |
|                  | (cc) emergency locator transmitter;                      |
|                  | (dd) final reserve fuel;                                 |
|                  | (ee) fit and proper person;                              |
|                  | (ff) flight information service;                         |
|                  | (gg) flight manual;                                      |
|                  | (hh) flight plan;  |
|                  | (ii) flight time;  |
|                  | (jj) height;   |
|                  | (kk) air-taxiing (Helicopter candidates only); (AIP GEN) |
|                  | (ll) incident;   |

| <b>Sub Topic</b> | <b>Syllabus Item</b>                      |
|------------------|---|
|                  | (mm) landing area; (AIP GEN)              |
|                  | (nn) night;                               |
|                  | (oo) NOTAM;                               |
|                  | (pp) passenger;                           |
|                  | (qq) personal locator beacon;             |
|                  | (rr) pilot-in-command;                    |
|                  | (ss) rating;                              |
|                  | (tt) SARTIME;                             |
|                  | (uu) simultaneous operations; (AIP GEN)   |
|                  | (vv) take-off weight;                     |
|                  | (ww) threshold; (Rule 121.3)              |
|                  | (xx) Technical Instructions;              |
|                  | (yy) type;                                |
|                  | (zz) UNICOM service;                      |
|                  | (aaa) VFR flight;                         |
|                  | (bbb) vicinity of an aerodrome; (AIP GEN) |
|                  | (ccc) visibility;                         |
|                  | (ddd) visual meteorological conditions;   |
|                  | (eee) visual reference (AIP GEN).         |

#### **4.6 Abbreviations**

CAR Part 1 (unless otherwise noted)

State the meaning of the following abbreviations:

- (a) ABN; (AIP GEN)
- (b) AGL;
- (c) AFIS; (AIP GEN)
- (d) AFRU;
- (e) AMSL;
- (f) ATIS;

**Sub Topic      Syllabus Item**

- (g) AWIB;
- (h) AWS; (AIP GEN)
- (i) BWR; (AIP GEN)
- (j) CAR; (AIP GEN)
- (k) DTHR; (AIP GEN)
- (l) ECT; (AIP GEN)
- (m) ELT;
- (n) FATO (Helicopter candidates only); (AIP GEN)
- (o) ME1;
- (p) ME2;
- (q) MCT; (AIP GEN)
- (r) POB; (AIP GEN)
- (s) QNH;
- (t) TALO (Helicopter candidates only); (AIP GEN)
- (u) TLOF (Helicopter candidates only); (AIP GEN)
- (v) VFR;
- (w) VPC; (AIP GEN).

**Personnel Licensing****4.10      Requirements for Licences and Ratings**

- 4.10.2      State the requirements for holding a pilot's licence as per Part 61
- 4.10.4      State the requirements for a pilot-in-command to hold a type rating on the type of aircraft being flown as per Part 61
- 4.10.6      State the general requirements for entering flight details into a pilot's logbook as per Part 61

**4.12      Eligibility, Privileges and Limitations**

- 4.12.2      Describe the allowance for a person who does not hold a current pilot licence to fly dual with a flying instructor as per Part 61
- 4.12.4      State the solo flight requirements on a person who does not hold a current pilot licence as per Part 61

| <b>Sub Topic</b> | <b>Syllabus Item</b>   |
|------------------|--|
| 4.12.6           | State the limitations on a person who does not hold a current pilot licence as per Part 61   |
| 4.12.8           | State the eligibility requirements for the issue of a private pilot licence as per Part 61   |
| 4.12.10          | State the privileges of holding a private pilot licence as per Part 61   |
| 4.12.12          | State the limitations on the holder of a private pilot licence as per Part 61  |
| 4.12.14          | State the requirements and limitations of a PPL holder sharing the cost of a flight as per Part 61   |
| 4.12.16          | List the limitations of a PPL holder operating solely on a Land Transport (DL9) medical.   |
| <b>4.14</b>      | <b>Competency, Currency and Recency</b>  |
| 4.14.2           | State the recent experience requirements of a pilot-in-command, by day and by night, who is the holder of a private pilot licence as per Part 61                                       |
| 4.14.4           | State the requirements for the completion of a biennial flight review as per Part 61   |
| <b>4.16</b>      | <b>Medical Requirements</b>  |
| 4.16.2           | State the requirements for holding a medical certificate as per Part 61  |
| 4.16.4           | State the requirements on a person applying for a medical certificate as per Part 67   |
| 4.16.6           | State the requirements for maintaining medical fitness following the issue of a medical certificate. CA Act 1990 S27C  |
| 4.16.8           | State the normal currency period of the Class 2 medical certificate for a PPL holder who is under the age of 40 as per Part 67   |
| 4.16.10          | State the normal currency period of the Class 2 medical certificate for a PPL holder who is 40 years of age or more on the date that the certificate is issued as per Part 67          |
| 4.16.12          | State the normal currency period of the Land Transport medical certificate (DL9) for a holder who is under the age of 40 as per Part 61  |
| 4.16.14          | State the normal currency period of the Land Transport medical certificate (DL9) for a holder who is 40 years of age or more on the date that the certificate is issued as per Part 61 |
|                  | <b>Airworthiness of Aircraft and Aircraft Equipment</b>  |
| <b>4.20</b>      | <b>Documentation</b>   |
| 4.20.2           | State the documents which must be carried in aircraft operated in New Zealand as per Part 91   |
| <b>4.22</b>      | <b>Aircraft Maintenance</b>  |
| 4.22.2           | Describe the maintenance requirements of an aircraft operator as per Part 91   |
| 4.22.4           | State the requirement for annual and 100-hour inspections as per Part 91   |

| <b>Sub Topic</b> | <b>Syllabus Item</b>  |
|------------------|---|
| 4.22.6           | State the requirement for a review of airworthiness as per Part 91  |
| 4.22.8           | State the requirements for maintenance records as per Part 91   |
| 4.22.10          | State the requirements for and contents of a technical log as per Part 91   |
| 4.22.12          | State the requirements for entering defects into a technical log as per Part 91   |
| 4.22.14          | State the requirements for clearing defects from a technical log as per Part 91   |
| 4.22.16          | State the limitations and requirements on a person undertaking 'pilot maintenance' as per Part 43                           |
| 4.22.18          | State the requirements for conducting an operational flight check on an aircraft as per Part 91                             |
| 4.22.20          | State the inspection period for radios as per Part 91   |
| 4.22.22          | State the inspection period for altimeters as per Part 91   |
| 4.22.24          | State the inspection period for transponders as per Part 91   |
| 4.22.26          | State the normal inspection period for the ELT as per Part 91   |
| <b>4.24</b>      | <b>Instruments and Avionics</b>   |
| 4.24.2           | State the minimum instrument requirements for a day VFR flight as per Part 91   |
| 4.24.4           | State the minimum instrument requirements for a night VFR flight as per Part 91   |
| 4.24.6           | State the radio equipment requirements for a VFR flight as per Part 91  |
| 4.24.8           | State the communications and navigation equipment requirements for a VFR over water flight as per Part 91                   |
| <b>4.26</b>      | <b>Equipment</b>  |
| 4.26.2           | State the equipment requirements for a night VFR flight as per Part 91  |
| 4.26.4           | State the equipment requirements for flight over water as per Part 91   |
| 4.26.6           | State the requirements for indicating the time in flight as per Part 91   |
| 4.26.8           | State the requirements for emergency equipment in aircraft with seating capacity for less than 10 passengers as per Part 91 |
| 4.26.10          | State the requirements for an ELT as per Part 91  |
|                  | <b>General Operating and Flight Rules</b>   |
| <b>4.30</b>      | <b>General Operating Requirements</b>   |
| 4.30.2           | Describe the requirements of passengers to comply with instructions and commands as per Part 91                             |

| <b>Sub Topic</b> | <b>Syllabus Item</b>  |
|------------------|---|
| 4.30.4           | State the requirements for operating an aircraft in simulated instrument flight as per Part 91                |
| 4.30.6           | State the requirements of a pilot-in-command with respect to the safe operation of an aircraft as per Part 91 |
| 4.30.8           | Describe the authority of the pilot-in-command as per Part 91   |
| 4.30.10          | State the requirements for crew occupation of seats and wearing safety belts as per Part 91                   |
| 4.30.12          | State the requirements for the occupation of seats and wearing of restraints as per Part 91                   |
| 4.30.14          | State the requirements for the use of oxygen equipment as per Part 91   |
| 4.30.16          | State the requirements for briefing passengers prior to flight as per Part 91                                 |
| 4.30.18          | State the requirements for familiarity with operating limitations and emergency equipment as per Part 91      |
| 4.30.20          | State the requirements for carrying appropriate aeronautical publications and charts in flight as per Part 91 |
| 4.30.22          | State the requirements for operating on and in the vicinity of an aerodrome as per Part 91                    |
| 4.30.24          | Describe the standard overhead joining procedure, and state when it should be used. AIP AD                    |
| 4.30.26          | State and describe the application of the right of way Parts as per Part 91                                   |
| 4.30.28          | Explain the requirement for aircraft lighting as per Part 91  |
| 4.30.30          | State the requirements for wearing/holding identity documentation in certain areas as per Part 19             |
| <b>4.32</b>      | <b>General Operating Restrictions</b>   |
| 4.32.2           | State the restrictions on smoking in an aircraft. CA Act 1990 S65N  |
| 4.32.4           | State the restrictions associated with the abuse of drugs and alcohol as per Part 91 and 19                   |
| 4.32.6           | State the restrictions on the use of portable electronic devices in flight as per Part 91                     |
| 4.32.8           | State the restrictions on the carriage and discharge of firearms on aircraft as per Part 91                   |
| 4.32.10          | Explain the restrictions on stowage of carry-on baggage as per Part 91  |
| 4.32.12          | Explain the restrictions on the carriage of cargo as per Part 91  |
| 4.32.14          | State the restrictions applicable to aircraft flying near other aircraft as per Part 91                       |

| <b>Sub Topic</b> | <b>Syllabus Item</b>   |
|------------------|--|
| 4.32.16          | State the restrictions on the dropping of objects from aircraft in flight as per Part 91                   |
| 4.32.18          | State the speed limitation on aircraft operating under VFR as per Part 91                                  |
| 4.32.20          | State the minimum heights for VFR flights (A) or (H) under Part 91   |
| 4.32.22          | State the restrictions when operating VFR in icing conditions as per Part 91                               |
| 4.32.24          | State the restrictions applicable to operating an aircraft in aerobatic flight as per Part 91              |
| 4.32.26          | State the restrictions applicable to parachute-drop operations as per Part 91                              |
| 4.32.28          | State the restrictions applicable to aircraft towing gliders as per Part 91                                |
| 4.32.30          | State the restrictions applicable to aircraft towing objects other than gliders as per Part 91             |
| <b>4.34</b>      | <b>General Meteorological Requirements and Restrictions</b>  |
| 4.34.2           | State the met minima for VFR flight (A) or (H) in various airspace as per Part 91                          |
| 4.34.4           | State the restrictions and met minima for Special VFR flight (A) or (H) as per Part 91                     |
| <b>4.36</b>      | <b>Carriage of Dangerous Goods</b>   |
| 4.36.2           | State the restriction for the carriage of dangerous goods in an aircraft as per Part 92                    |
| 4.36.4           | State the requirements for the carriage of non-dangerous goods in an aircraft as per Part 92               |
|                  | <b>Flight Planning and Preparation</b>   |
| <b>4.50</b>      | <b>Flight Preparation</b>  |
| 4.50.2           | Explain the requirements for obtaining and considering relevant information prior to flight as per Part 91 |
| 4.50.4           | Describe the publications and their content that provide operational route and aerodrome information.      |
| 4.50.6           | Derive operational information from charts and publications that provide route and aerodrome information.  |
| <b>4.54</b>      | <b>Fuel Requirements</b>   |
| 4.54.2           | State the minimum fuel reserve (A) or (H) required for a day VFR flight as per Part 91                     |
| 4.54.4           | State the minimum fuel reserve (A) or (H) required for a night VFR flight as per Part 91                   |
| <b>4.56</b>      | <b>Flight Plans</b>  |
| 4.56.2           | State the requirements for the filing of a flight plan for flight under VFR as per Part 91                 |



| <b>Sub Topic</b> | <b>Syllabus Item</b>  |
|------------------|---|
| 4.56.4           | State the requirements for notification of changes to the filed flight plan as per Part 91  |
| 4.56.6           | State the requirements for the terminating a flight plan as per Part 91   |
| 4.56.8           | Describe the difference between ETA and SARTIME as per Part 91  |
| 4.56.10          | State the time search and rescue action would be initiated if a flight plan is not terminated before SARTIME. AIP ENR                                   |
|                  | <b>Air Traffic Services</b>   |
| <b>4.60</b>      | <b>Communications</b>   |
| 4.60.2           | Derive from operational publications, the required radio frequency for communicating with specified ATC units.  |
| 4.60.4           | State the requirements for making position reports to an ATS unit as per Part 91 & AIP ENR  |
| 4.60.6           | State the content of a VFR position report. AIP ENR   |
| 4.60.8           | State the purpose of Universal Communications Services (UNICOM). AIP GEN  |
| 4.60.10          | State the purpose of an Aerodrome Frequency Response Unit (AFRU). AIP GEN   |
| 4.60.12          | State the purpose of Aerodrome and Weather Information Broadcasts (AWIB). AIP GEN   |
| 4.60.14          | State the meaning of the various light signals from a control tower as per Part 91 & AIP AD   |
| 4.60.16          | State the communications requirements when TIBA procedures are in force. AIP ENR  |
| <b>4.62</b>      | <b>Clearances</b>   |
| 4.62.2           | State the requirements for complying with ATC clearances and instructions as per Part 91 & AIP ENR  |
| 4.62.4           | State the requirements for coordinating with an aerodrome flight information service as per Part 91   |
| 4.62.6           | State the requirements for receiving an ATC clearance prior to entering various types of airspace, and ground manoeuvring area as per Part 91 & AIP ENR |
| 4.62.8           | State the requirements for receiving an ATC clearance prior to re-entering controlled airspace as per Part 91 & AIP ENR                                 |
| <b>4.63</b>      | <b>Separation</b>   |
| 4.63.2           | Describe the method of passing traffic information using the clock code.  |
| 4.63.4           | Describe the situations where Air Traffic Control is responsible for the provision of separation between VFR, SVFR and IFR traffic. AIP ENR             |

| <b>Sub Topic</b> | <b>Syllabus Item</b>  |
|------------------|---|
| 4.63.6           | Describe the situations where the pilot-in-command is responsible for maintaining separation from other traffic. AIP ENR  |
| 4.63.8           | Describe the normal separation standards applied by ATC. AIP ENR  |
| 4.63.10          | Describe the situations where the normal separation may be reduced. AIP ENR   |
| 4.63.12          | State the wake turbulence separation requirements for light aircraft in non-radar environment. AIP AD   |
| <b>4.66</b>      | <b>Radar Services</b>   |
| 4.66.2           | Describe the radar services available to VFR flights. AIP ENR<br><br>Airspace, Aerodromes and Heliports   |
| <b>4.70</b>      | <b>Altimetry</b>  |
| 4.70.2           | Explain the altimeter setting requirements for flight under VFR as per Part 91 & AIP ENR  |
| 4.70.4           | State the procedure to use to obtain an altimeter setting when QNH is not available prior to take-off and the requirement to obtain a QNH once in flight. AIP ENR     |
| 4.70.6           | Describe QNH zones and state when zone QNH should be used. AIP ENR  |
| <b>4.72</b>      | <b>Cruising Levels</b>  |
| 4.72.2           | State the altitude requirements when cruising VFR within the New Zealand FIR as per Part 91 & AIP ENR   |
| 4.72.4           | Describe situations where ATC may assign cruising altitudes not in accordance with the VFR table of cruising altitudes. AIP ENR                                       |
| <b>4.74</b>      | <b>Transponders</b>   |
| 4.74.2           | State the requirements for the operation of transponders within the New Zealand FIR as per Part 91 & AIP ENR  |
| 4.74.4           | Describe the procedures required of pilots operating transponders. AIP ENR  |
| 4.74.6           | State the requirements and limitations on an aircraft operating under VFR in transponder mandatory airspace without an operating transponder as per Part 91 & AIP ENR |
| <b>4.75</b>      | <b>Airspace</b>   |
| 4.75.2           | State the rules pertaining to operating VFR in the various classes of airspace as per Part 91 & AIP ENR   |
| 4.75.4           | Describe the vertical limits and purpose of control zones (CTR) as per Part 71  |
| 4.75.6           | Describe the vertical limits and purpose of control areas (CTA) as per Part 71  |
| 4.75.8           | State the status and conditions relating to flight in VFR transit lanes. AIP ENR  |

| <b>Sub Topic</b> | <b>Syllabus Item</b>  |
|------------------|---|
| 4.75.10          | Describe the status and purpose of a general aviation area (GAA) as per Part 91 & AIP ENR   |
| 4.75.12          | Describe visual reporting points  |
| 4.75.14          | Describe the status of controlled airspace when ATC go off duty. AIP GEN  |
| 4.75.16          | State the restrictions on operating an aircraft in a restricted area as per Part 91 & AIP ENR   |
| 4.75.18          | State the restrictions on operating an aircraft in a military operating area (MOA) as per Part 91 & AIP ENR   |
| 4.75.20          | State the restrictions and operating considerations relating to operating an aircraft in a mandatory broadcast zone (MBZ) as per Part 91 & AIP ENR                              |
| 4.75.22          | State the restrictions and operating considerations relating to operating an aircraft in a volcanic hazard zone (VHZ) as per Part 91 & AIP ENR                                  |
| 4.75.24          | State the restrictions and operating considerations relating to operating an aircraft in a danger area as per Part 91 & AIP ENR   |
| 4.75.26          | State the restrictions and operating considerations relating to operating an aircraft in a designated low flying zone (LFZ) as per Part 91 & AIP ENR                            |
| 4.75.28          | State the operating considerations relating to operating an aircraft in a common frequency zone (CFZ). AIP ENR  |
| 4.75.30          | State the operating considerations relating to operating an aircraft over or close to temporary hazards/airspace. AIP ENR   |
| 4.75.32          | Interpret airspace information on aeronautical charts used for VFR flights  |
| <b>4.76</b>      | <b>Aerodromes and Heliports</b>   |
| 4.76.2           | Describe the limitations on the use of a place as an aerodrome or heliport as per Part 91   |
| 4.76.4           | Describe the method of runway designation. AIP AD   |
| 4.76.6           | Describe the movement area of an aerodrome as per Part 1  |
| 4.76.8           | Describe the meaning of the various aerodrome ground signals.   |
| 4.76.10          | Interpret information on aerodrome/heliport charts. AIP GEN & AIP Volume 4  |
| 4.76.12          | Interpret runway and taxiway signs and markings as per Part 139   |
| <b>4.78</b>      | <b>Aerodromes Lighting</b>  |
| 4.78.4           | Describe the following lighting systems: <ul style="list-style-type: none"><li>(a) Runway edge lighting (REDL);</li><li>(b) Runway landing threshold lighting (RTHL);</li></ul> |

| <b>Sub Topic</b> | <b>Syllabus Item</b>   |
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|                  | (c) Runway end lighting (RENL);  |
|                  | (d) Runway centreline lighting system (RCLL);  |
|                  | (e) Runway end identifier lighting (REIL);   |
|                  | (f) Circling guidance lighting (CGL);  |
|                  | (g) Runway lead in lighting (RLLS); and,   |
|                  | (h) Pilot activated lighting (PAL)   |
| 4.78.6           | Describe aerodrome beacons.  |
|                  | <b>Emergencies; Incidents; and Accidents</b>   |
| <b>4.80</b>      | <b>Responsibilities of Pilots</b>  |
| 4.80.2           | State the requirement for the notification of accidents as per Part 12   |
| 4.80.4           | State the requirement for the notification of incidents as per Part 12   |
| 4.80.6           | State the extent to which a pilot may deviate from the CA Act or rules in an emergency situation. CA Act 1990 s13A               |
| 4.80.8           | State the pilot action required following deviation from the CA Act or rules in an emergency situation. CA Act 1990 s13A         |
| <b>4.82</b>      | <b>Communications and Equipment</b>  |
| 4.82.2           | State the transponder code a pilot should set to indicate an emergency condition. AIP ENR  |
| 4.82.4           | State the transponder code a pilot should set to indicate a loss of communications. AIP ENR                                      |
| 4.82.6           | State the transponder code a pilot should set to indicate that the aircraft is being subjected to unlawful interference. AIP ENR |
| 4.82.8           | Describe the means by which ATC will verify the transmission of an emergency SSR transponder code. AIP ENR                       |
| 4.82.10          | Describe the use of the speechless technique using unmodulated transmissions. AIP ENR  |
| 4.82.12          | Describe and interpret ground-air visual signal codes. AIP GEN   |
| 4.82.14          | Describe the procedures for directing a surface craft to a distress incident. AIP GEN  |
| 4.82.16          | State the procedures for the emergency activation of an ELT. AIP GEN   |
| 4.82.18          | State the pilot action required following the inadvertent transmission of an ELT. AIP GEN  |
| 4.82.20          | State the requirements for the operational testing of an ELT. AIP GEN  |

| <b>Sub Topic</b> | <b>Syllabus Item</b>  |
|------------------|---|
| 4.82.22          | State the procedures to be followed on receiving an ELT signal. AIP GEN |