I, terence LINDSAY farquharson, Acting Director of Aviation Safety, on behalf of CASA, make this instrument under regulations 11.068 and 61.035 of the *Civil Aviation Safety Regulations 1998* and section 4 of the *Acts Interpretation Act 1901*.

**[Signed T. Farquharson]**

Terry Farquharson
Acting Director of Aviation Safety

13 August 2014

Part 61 Manual of Standards Instrument 2014

1 Name of instrument

 1.1 This instrument is the Part 61 Manual of Standards for Part 61 of the *Civil Aviation Safety Regulations* *1998* (***CASR 1998***).

 1.2 This instrument is called the *Part 61 Manual of Standards Instrument 2014*.

 1.3 In this instrument, unless the contrary intention appears, a reference to “this MOS” or “the MOS” means the *Part 61 Manual of Standards Instrument 2014*.

2 Commencement

 This instrument commences on 1 September 2014.

3 Scope

 Under regulation 61.035 of CASR 1998, and for Part 61 of CASR 1998, this MOS sets out matters relating to:

(a) flight crew licences, ratings and endorsements; and

(b) the use of an ACAS; and

(c) aeronautical radio operations; and

(d) aeroplane taxiing; and

(e) conditions on flight examiner ratings.

4 Condition on flight examiner ratings

 For paragraph 98 (5A) (1) (a) and subsection 98 (5D) of the *Civil Aviation Act 1988*, and regulation 11.068 of CASR 1998, it is a condition on a flight examiner rating, issued before or after this MOS, that when conducting a flight test or a proficiency check the holder of the rating must comply with the requirements of, and take into account the recommendations in, the *Flight Examiners’ Handbook* as in force and published on the CASA website at the time of the flight test or proficiency check.

5 Definitions

 5.1 In this MOS, unless the contrary intention appears:

 ***cell***, for acolumn of a table in a Schedule of this instrument, means each individual, undivided unit into which the column is subdivided.

 ***in accordance with published procedures***, for carrying out an activity in relation to an aircraft, means carrying out the activity in accordance with the applicable requirements (if any) set out in each of the following:

(a) the aircraft flight manual;

(b) the aircraft operator’s operations manual;

(c) the Aeronautical Information Publication (AIP);

(d) another operational document applicable to the activity that is approved in writing by CASA or the operator.

 5.2 In this MOS, unless the contrary intention appears, an abbreviation has the meaning given to it by the Dictionary of abbreviations in Schedule 1A.

 5.3 Unless the contrary intention appears, if an abbreviation used in this MOS is not given a meaning under Schedule 1A, the abbreviation has the meaning that is given to it by the prevalent usage, custom and practice of the aviation industry.

 5.4 To avoid doubt, in this MOS neither a unit code nor an examination code is an abbreviation within the meaning of subsection 5.2 or 5.3.

6 Recreational pilot licences — general English language proficiency standard

 6.1 The general English language proficiency standard is as set out in Section 1 of Schedule 2.

*Note*   See the Table of Contents at the front of Schedule 2 to find the general English language proficiency standards.

 6.2 The assessment mentioned in subclause 5.1.1 of Section 1 of Schedule 2, and the requirement specified in subclause 5.1.2, are each part of the standard.

 6.3 The general English language proficiency tests are as set out in paragraph 5.1.2 (f) of Section 1 of Schedule 2.

 6.4 For subsection 6.3, achieving the minimum grade specified for each test is part of each test.

7 Aviation English language proficiency standards and maintenance of English language proficiency

 7.1 The aviation English language proficiency standard is as set out in Section 1 of Schedule 2.

*Note*   See the Table of Contents at the front of Schedule 2 to find the aviation English language proficiency standards.

 7.2 The ICAO level 4, level 5 and level 6 aviation English language proficiency standards (rating scales) are as set out in Section 2 of Schedule 8.

*Note*   See the Table of Contents at the front of Schedule 8 to find the ICAO level 4, level 5 and level 6 aviation English language proficiency standards (rating scales).

8 Units of competency for flight training, use of ACAS, aeronautical radio operations, and taxiing

 8.1 The units of competency for each of the following matters are as set out in the Appendix of a Section in Schedule 1 that is for the particular matter:

(a) a flight crew licence with an aircraft category rating, a flight crew rating on a licence, or an endorsement on a rating;

(b) a design feature endorsement or a flight activity endorsement;

(c) use of an ACAS;

(d) an aeronautical radio operator certificate;

(e) a certificate of competency for taxiing aeroplanes of a particular class or type rating.

*Note*   See the Table of Contents at the front of Schedule 1 to find the reference to any particular matter listed in paragraphs (a) to (e) above.

 8.2 For an Appendix mentioned in subsection 8.1, each unit of competency mentioned in a cell in column 2 of the practical flight standards table in the Appendix (the ***unit of competency***) has the unit code mentioned in the corresponding cell in column 1 (the ***unit code***).

 8.3 For subsection 8.2, the requirements of the unit of competency are set out in the document whose unit code is mentioned in the cell in column 1 that corresponds to the unit of competency.

 8.4 For subsection 8.3, the unit coded document containing the requirements of the unit of competency is the document in Schedule 2 which has the same unit code.

*Note*   See the Table of Contents at the front of Schedule 2 for an alphabetical list of unit codes.

 8.5 The competency required of a person by each unit of competency mentioned in Schedule 2 (the ***unit***) is the ability to do the following:

(a) perform each of the elements mentioned in clause 2 of the unit:

 (i) according to the performance criteria mentioned for the element; and

 (ii) within the range of variables mentioned in clause 3 for the unit; and

 (iii) for practical flight — within the flight tolerances mentioned in the table in Section 1 of Schedule 8 that is for the category of aircraft (where applicable) and for the licence or rating; and

(b) demonstrate the underpinning knowledge for each unit, as mentioned in clause 4 of the unit.

*Note*   A unit of competency in Schedule 2 usually comprises: (1) the unit description, (2) its elements and performance criteria, (3) the range of variables across which these criteria are to be applied, and (4) the minimum underpinning knowledge for (2) and (3).

9 Other approved courses

 RESERVED (CASR 61.040 and 61.210)

10 Aeronautical knowledge standards

 10.1 The aeronautical knowledge standards for a flight crew licence with an aircraft category rating, a flight crew rating on a licence or an endorsement on a rating are as set out in the Appendix of a Section in Schedule 1 that is for the licence, rating or endorsement.

*Note*   See the Table of Contents at the front of Schedule 1 to find any particular licence, rating or endorsement.

 10.2 For an Appendix mentioned in subsection 10.1, each unit of knowledge mentioned in a cell in column 2 of an aeronautical knowledge standards table in the Appendix (the ***unit of knowledge***) has the unit code mentioned in the corresponding cell in column 1 (the ***unit code***).

 10.3 For subsection 10.2, the requirements of the unit of knowledge are set out in the document whose unit code is mentioned in the cell in column 1 that corresponds to the unit of knowledge.

 10.4 For subsection 10.3, the unit coded document containing the requirements of a unit of knowledge is the document in Schedule 3 which has the same unit code.

 10.5 The standard of knowledge required of a person by each unit of knowledge mentioned in Schedule 3 is the ability to demonstrate, to the appropriate level, knowledge of the elements, topics and specific content described in each clause of the unit.

 10.6 For subsection 10.5:

(a) an element, generally identifying a knowledge area within the unit of knowledge, is indicated in bold, underlined print, and numbered as a clause; and

(b) a topic (if any), further defining a knowledge area within an element, is indicated in bold print and numbered as a subclause; and

(c) specific content, describing in detail the relevant content of the topic (if any), or the element, is indicated in plain print and numbered as subclauses, paragraphs, subparagraphs and sub-subparagraphs as the case may be.

11 Aeronautical knowledge examinations, pass standards and time

 11.1 The aeronautical knowledge examinations for a flight crew licence with an aircraft category rating, a flight crew rating on a licence, or an endorsement on a rating are as set out in the table in the Section of Schedule 4 that is for the licence, rating or endorsement (the ***table***).

 11.2 For subsection 11.1, the examination for each examination subject mentioned in a cell in column 2 of the table (the ***subject***) has the examination code, the pass standard and the time limit mentioned in the cell in column 1, column 3 and column 4 (respectively) of the table that corresponds to the subject.

*Note*   The examination codes mentioned in the cells in column 1 of the table are for examination administration purposes only.

12 Flight tests — competency standards

 12.1 The competency standards for a flight test for a flight crew licence with an aircraft category rating, a flight crew rating on a licence, or an endorsement on a rating are as set out in the Appendix in Schedule 5 that is for the licence, rating or endorsement flight test.

*Note*   See the Table of Contents at the front of Schedule 5 to find the reference to any particular flight test.

 12.2 For subsection 12.1, the competency standards for a flight test mentioned in an Appendix in Schedule 5 comprise the following:

(a) the flight test requirements mentioned in the Appendix for the test;

(b) the knowledge requirements mentioned in the Appendix for the test;

(c) the practical flight standards mentioned in the Appendix for the test, but within the flight tolerances mentioned in the table in Section 1 of Schedule 8 that is for the category of aircraft (where applicable) and for the licence, rating or endorsement.

*Note*   For paragraph (c), the aircraft category is identified in the title of the relevant table in Schedule 8, and the licence, rating or endorsement is identified in the “Applicability” clause of the relevant table.

 12.3 For an Appendix mentioned in subsection 12.1, each unit of competency mentioned in a cell in column 2 of the practical flight standards table in the Appendix (the ***unit of competency***) has the unit code mentioned in the corresponding cell in column 1 (the ***unit code***), subject to the modification (if any) specified in column 3.

 12.4 For subsection 12.3, the requirements of the unit of competency are set out in the document whose unit code is mentioned in the cell in column 1 that corresponds to the unit of competency.

 12.5 For subsection 12.4, the unit coded document containing the requirements of the unit of competency is the document in Schedule 2 which has the same unit code.

*Note*   See the Table of Contents at the front of Schedule 2 for an alphabetical list of unit codes.

 12.6 For a flight test, the competency required of a person by each relevant unit of competency mentioned in Schedule 2 (the ***unit***) is the ability to perform each of the elements mentioned in clause 2 of the unit:

(a) according to the performance criteria mentioned for the element; and

(b) within the range of variables mentioned in clause 3 for the unit; and

(c) subject to the modifications (if any) specified in column 3 of the practical flight standards table in Schedule 5.

*Note*   For a flight test, the competency required of a person by a unit of competency does not require specific testing of the underpinning knowledge in Schedule 2.

13 Proficiency checks — competency standards

 13.1 The competency standards for a proficiency check for a flight crew rating on a licence, or an endorsement on a rating are as set out in the Appendix in Schedule 6 that is for the rating proficiency check.

*Note*   See the Table of Contents at the front of Schedule 6 to find the reference to any particular proficiency check.

 13.2 For subsection 13.1, the competency standards for a proficiency check mentioned in an Appendix in Schedule 6 comprise the following:

(a) the proficiency check requirements mentioned in the Appendix for the check;

(b) the knowledge requirements mentioned in the Appendix for the check;

(c) the practical flight standards mentioned in the Appendix for the check, but within the flight tolerances mentioned in the table in Section 1 of Schedule 8 that is for the category of aircraft (where applicable) and for the flight crew rating.

*Note*   For paragraph (c), the aircraft category is identified in the title of the relevant table in Schedule 8, and the rating is identified in the “Applicability” clause of the relevant table.

 13.3 For an Appendix mentioned in subsection 13.1, each unit of competency mentioned in a cell in column 2 of the practical flight standards table in the Appendix (the ***unit of competency***) has the unit code mentioned in the corresponding cell in column 1 (the ***unit code***), subject to the modification (if any) specified in column 3.

 13.4 For subsection 13.3, the requirements of the unit of competency are set out in the document whose unit code is mentioned in the cell in column 1 that corresponds to the unit of competency.

 13.5 For subsection 13.4, the unit coded document containing the requirements of the unit of competency is the document in Schedule 2 which has the same unit code.

*Note*   See the Table of Contents at the front of Schedule 2 for an alphabetical list of unit codes.

 13.6 For a proficiency check, the competency required of a person by each relevant unit of competency mentioned in Schedule 2 (the ***unit***) is the ability to perform each of the elements mentioned in clause 2 of the unit, according to the performance criteria mentioned for the element, within the range of variables mentioned in clause 3 for the unit, but subject to the modifications (if any) specified in column 3 of the practical flight standards table in Schedule 6.

*Note*   For a proficiency check, the competency required of a person by a unit of competency does not require specific testing of the underpinning knowledge in Schedule 2.

14 Flight reviews — competency standards

 14.1 The competency standards for a flight review for a flight crew rating on a licence are as set out in the Appendix in Schedule 7 that is for the rating flight review.

*Note*   See the Table of Contents at the front of Schedule 7 to find the reference to any particular flight review.

 14.2 For subsection 14.1, the competency standards for a flight review mentioned in an Appendix in Schedule 7 comprise the following:

(a) the flight review requirements mentioned in the Appendix for the flight review;

(b) the knowledge requirements mentioned in the Appendix for the flight review;

(c) the practical flight standards mentioned in the Appendix for the flight review, but within the flight tolerances mentioned in the table in Section 1 of Schedule 8 that is for the category of aircraft (where applicable) and for the rating.

*Note*   For paragraph (c), the aircraft category is identified in the title of the relevant table in Schedule 8, and the rating is identified in the “Applicability” clause of the relevant table.

 14.3 For an Appendix mentioned in subsection 14.1, each unit of competency mentioned in a cell in column 2 of the practical flight standards table in the Appendix (the ***unit of competency***) has the unit code mentioned in the corresponding cell in column 1 (the ***unit code***), subject to the modification (if any) specified in column 3.

 14.4 For subsection 14.3, the requirements of the unit of competency are set out in the document whose unit code is mentioned in the cell in column 1 that corresponds to the unit of competency.

 14.5 For subsection 14.4, the unit coded document containing the requirements of the unit of competency is the document in Schedule 2 which has the same unit code.

*Note*   See the Table of Contents at the front of Schedule 2 for an alphabetical list of unit codes.

 14.6 For a flight review, the competency required of a person by each relevant unit of competency mentioned in Schedule 2 (the ***unit***) is the ability to perform each of the elements mentioned in clause 2 of the unit, according to the performance criteria mentioned for the element, within the range of variables mentioned in clause 3 for the unit, but subject to the modifications (if any) specified in column 3 of the practical flight standards table in Schedule 7.

*Note*   For a flight review, the competency required of a person by a unit of competency does not require specific testing of the underpinning knowledge in Schedule 2.

Schedule 1A Dictionary of abbreviations

|  |  |
| --- | --- |
| **Abbreviation** | **Meaning** |
| ACAS | Airborne collision avoidance system |
| ACN | Aircraft classification number |
| AD | Aerodrome |
| ADC | Air data computer |
| ADF | Automatic direction finder |
| ADIZ | Air defence identification zones. |
| AEL | Aviation English language |
| AFCS | Automatic flight control system  |
| AFM | Aircraft flight manual |
| AFOR | Area forecast |
| AGL | Above ground level |
| AIC | Aeronautical information circular |
| AIP | Aeronautical information package |
| AIREP | Air report |
| AK | General aeronautical knowledge |
| ALA | Aerodromes and aeroplane landing areas |
| ALC | Approved load controlled |
| ALT | Altitude |
| AMP | Aerial application management plan |
| ANP | Actual navigation performance |
| AOA | Angle of attack |
| AOC | Air operator’s certificate |
| AOM | Aerodrome operating manual |
| AP | Auto pilot |
| APU | Auxiliary power unit |
| ARS | Attitude retention system |
| ASI | Air speed indicator |
| AT | Auto throttle |
| ATC | Air traffic control |
| ATIS | Aerodrome terminal information service |
| ATPL | Air transport pilot licence |
| ATS | Air traffic service |
| AUW | All up weight |
| AVADS | Auto voice activated decision system |
| BAK | Basic aeronautical knowledge |
| BHP | Brake horsepower |
| CAAP | Civil Aviation Advisory Publication |
| CAO | Civil Aviation Order |
| CAS | Calibrated air speed |
| CASA | Civil Aviation Safety Authority |
| CASR 1998 | *Civil Aviation Safety Regulations 1998* |
| CAT | Clear air turbulence |
| CBT | Computer-based test |
| CDFA | Continuous descent flight angle |
| CDI | Course deviation indicator |
| CDP | Climb descent procedure |
| CG | Centre of gravity |
| CHT | Cylinder head temperature |
| CP | Critical point |
| CPL | Commercial pilot licence |
| CRM | Crew resource management |
| CSU | Constant speed unit |
| CTA | Controlled airspace |
| CTAF | Common traffic advisory frequency |
| CTR | Control zone |
| CVR | Cockpit voice recorder |
| DA | Density altitude |
| DALR | Dry adiabatic lapse rate |
| DAME | Designated aviation medical examiner |
| DAP | Departure and approach |
| DFDR | Digital flight data recorder |
| DFE | Design feature endorsement |
| DME | Distance measuring equipment |
| EAS | Equivalent air speed |
| EET | Estimated elapsed time |
| EFIS | Electronic flight instrument system |
| EGT | Exhaust gas temperature |
| EICAS | Engine indication and crew alerting system |
| ELR | Environmental lapse rate |
| EPR | Engine pressure ratio |
| EPT | Effective performance time |
| ERC | En route chart |
| ERSA | En route supplement Australia |
| ETA | Estimated time of arrival |
| ETD | Estimated time of departure |
| ETI | Estimated time interval |
| ETOPS | Extended range twin operations |
| ETP | Equi-time point |
| FAE | Flight activity endorsement |
| FAF | Final approach fix |
| FD | Flight director |
| FIA | Flight information area |
| FIR | Flight information region |
| FMS | Flight management systems |
| FSTD | Flight simulation training device |
| g | Gravitational force |
| GAL | Gallon |
| G-LOC | G-induced loss of consciousness |
| GNSS | Global navigation satellite system |
| GPU | Ground power unit |
| GPWS | Ground proximity warning systems |
| GS | Ground speed |
| HDG | Heading |
| HF | High frequency |
| HLS | Helicopter landing site |
| HPAV | Horse power available |
| HPREQ | Horse power required |
| HUMS | Health usage monitoring system |
| H-V | Height-velocity |
| IAF | Initial approach fix |
| IAL | Instrument approach and landing |
| IAP | Instrument approach procedure |
| IAS | Indicated air speed |
| ICAO | International Civil Aviation Organization |
| ICTZ | Inter-tropical convergence zone |
| IELTS | International English language testing system |
| IFR | Instrument flight rules |
| ILS | Instrument landing system |
| IMC | Instrument metrological conditions |
| INS | Inertial navigation system |
| ISA | International standard atmosphere |
| IVSI | Instantaneous vertical speed indicator |
| JPT | Jet pipe temperature |
| KDR | Knowledge deficiency report |
| KG | Kilogram |
| KIAS | Knots indicated air speed |
| LA | Landing area |
| LB | Pound |
| LDA | Landing distance available |
| LDP | Landing decision point |
| LDR | Landing distance required |
| LG | Landing gear |
| LLZ | Localizer |
| LMT | Local mean time |
| LNAV | Lateral navigation |
| LPV | Localiser precision with vertical guidance |
| LRC | Long range cruise |
| LSALT | Lowest safe altitude |
| LSB | Lower side band |
| LTE | Loss of tail rotor effectiveness |
| LTR | Litre |
| LVC | Live, virtual and constructive (simulators) |
| MAC | Mean aerodynamic chord |
| MAPt | Missed approach point |
| MDA | Minimum descent altitude |
| MEL | Minimum equipment list |
| Met | Meteorology |
| MF | Medium frequency |
| MLS | Microwave landing system |
| MLW | Maximum landing weight |
| MOS | Manual of Standards |
| MP | Manifold pressure |
| MPL | Multi-crew pilot licence |
| MSA | Minimum sector altitude |
| MSL | Mean sea level |
| MTOW | Maximum take-off weight |
| MZW | Mid-zone weight |
| NDB | Non-directional beacon |
| NGT | Night |
| NM | Nautical mile |
| NOTAM | Notice to Airmen |
| NPA | Non precision approach |
| NVFR | Night visual flight rules |
| NVG | Night vision goggles |
| NVIS | Night vision imaging system |
| OAT | Outside air temperature |
| OCTA | Outside controlled airspace |
| OEI | One engine inoperative |
| OGE | Out of ground effect |
| OH&S | Occupational health and safety |
| PAL | Pilot-activated lighting |
| PAPI | Precision approach path indicator |
| PBN | Performance based navigation |
| PCN | Pavement classification number |
| PEC | Pressure error correction |
| PF | Pilot flying |
| PIF | Private instrument flight |
| PIFR | Private IFR rating |
| PIO | Pilot induced oscillation |
| PM | Pilot monitoring |
| PNR | Point of no return |
| POH | Pilot operating handbook |
| PPL | Private pilot licence |
| PRD | Prohibited/restricted/danger areas |
| PUS | Permissible unserviceability |
| RA | Resolution advisory |
| RAF | Relative air flow |
| RAIM | Receiver autonomous integrity monitoring |
| RFM | Rotorcraft flight manual |
| RMI | Remote magnetic indicator |
| RNAV | Route navigation |
| RNP | Required navigation performance |
| ROC | Rate of climb |
| ROD | Rate of descent |
| RPL | Recreational pilot licence |
| RPM | Revolutions per minute |
| RRPM | Rotor rpm |
| RT | Radio transmission |
| RVR | Runway visual range |
| RVSM | Reduced vertical separation minima |
| SALR | Saturated adiabatic lapse rate  |
| SAR | Search and rescue |
| SARTIME | Search and rescue time |
| SARWATCH | Search and rescue watch |
| SAS | Stability augmentation system |
| SID | Standard instrument departure |
| SIGWX | Significant weather |
| SOP | Standard operating procedures |
| SSB | Single side band |
| SSR | Secondary surveillance radar |
| STAR | Standard arrival route |
| TA | Traffic advisory |
| TAF | Terminal area forecast |
| TAS | True air speed |
| TAT | Total air temperature |
| TCAS | Traffic collision avoidance system |
| TEM | Threat error management |
| TGT | Turbine gas temperature |
| THP | Thrust horsepower |
| TIT | Turbine inlet temperature |
| TMG | Track made good |
| TODA | Take-off distance available |
| TODR | Take-off distance required |
| TOEFL CBT | Test of English as a foreign language computer-based test |
| TOEFL IBT | Test of English as a foreign language internet-based test |
| TOEFL PB | Test of English as a foreign language paper-based test |
| TOEIC | Test of English for international communication |
| TR | Track |
| TTF | Trend type forecast |
| TWS | Take-off warning system |
| UAS | Undesired aircraft states |
| UHF | Ultra high frequency |
| USB | Upper side band |
| UTC | Universal time coordinate |
| VASI | Visual approach slope indicator |
| VFR | Visual flight rules |
| VHF | Very high frequency |
| VIS | Visibility |
| VMC | Visual metrological conditions |
| VMO | Velocity maximum operating |
| VNAV | Vertical navigation |
| VNE | Velocity never exceed |
| VNO | Velocity normal operating |
| VOLMET | Metrological information for aircraft in flight |
| VOR | Very high-frequency omni-directional range |
| VS | Vertical speed |
| VSI | Vertical speed indicator |
| VTC | Visual terminal chart |
| W/V | Wind velocity |
| WAAS | Wide area augmentation system |
| WAC | World aeronautical chart |
| WX | Weather |
| ZFW | Zero fuel weight |

Schedule 1 Directory of units of competency and units of knowledge

The following Table of Contents and Index of Competency Unit codes are for guidance only and are not part of the Schedule.

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Section B General

Language proficiency

# Appendix B.1 General English language proficiency

## Standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| GEL | General English language proficiency |

# Appendix B.2 Aviation English language proficiency

## Standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| AEL | Aviation English language proficiency |

Multi-crew cooperation

# Appendix B.3 Multi-crew cooperation (MCC)

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| AHFC | ATPL Human factors |

See relevant underpinning knowledge in the Unit of competency

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| MCO | Manage flight during multi-crew operations |

Airborne Collision Avoidance System (ACAS)

# Appendix B.4 Airborne Collision Avoidance System (ACAS)

## Aeronautical knowledge standards – reserved

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| CAS | Operate Airborne Collision Avoidance System (ACAS) |

Aeronautical radio operator (CASR Part 64)

# Appendix B.5 Aeronautical radio operator (CASR Part 64)

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| RARO | Aeronautical radio operation |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| C3 | Operate aeronautical radio |

Section G Recreational pilot licence (RPL)

# Appendix G.1 Aeroplane category rating (RPL)

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| BAKC | Basic aeronautical knowledge |
| RFRC | RPL Flight rules and air law |
| RMTC | RPL Meteorology |
| PHFC | PPL Human factors |
| RBKA | Basic aeronautical knowledge – aeroplane |

## Practical flight standards – aeroplane category rating

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| C1 | Communicating in the aviation environment |
| C2  | Perform pre- and post-flight actions and procedures |
| C4 | Manage fuel |
| C5 | Manage passengers and cargo |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| A1 | Control aeroplane on the ground |
| A2 | Take-off aeroplane  |
| A3 | Control aeroplane in normal flight |
| A4 | Land an aeroplane |
| A5 | Aeroplane advanced manoeuvres |
| A6 | Manage abnormal situations – single-engine aeroplanes |
| IFF | Instrument flight full panel |

# Appendix G.2 Helicopter category rating (RPL)

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| BAKC | Basic aeronautical knowledge |
| RFRC | RPL Flight rules and air law |
| PHFC | PPL Human factors |
| RBKH | Basic aeronautical knowledge – helicopter |

## Practical flight standards – helicopter category

| **Unit code** | **Unit of competency** |
| --- | --- |
| C1 | Communicating in the aviation environment |
| C2 | Perform pre- and post-flight actions and procedures |
| C4 | Manage fuel |
| C5 | Manage passengers and cargo |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| H1 | Control helicopter on the ground – stationary  |
| H2 | Control helicopter in lift-off, hover and landing |
| H3 | Taxi helicopter |
| H4 | Take-off helicopter and approach to hover |
| H5 | Control helicopter in normal flight |
| H6 | Control helicopter during advanced manoeuvres |
| H7 | Manage abnormal situations and emergencies – helicopter |

# Appendix G.3 Gyroplane category rating (RPL) *– Reserved*

# Appendix G.4 Airship category rating (RPL) *– Reserved*

# Appendix G.5 Controlled aerodrome endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| CTR | Operate at a controlled aerodrome |

# Appendix G.6 Controlled airspace endorsement

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| CTA | Operate in controlled airspace |

# Appendix G.7 Flight radio endorsement

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| RARO | Aeronautical radio operation |

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| C1 | Communicating in the aviation environment |
| C3 | Operate aeronautical radio |

# Appendix G.8 Recreational navigation endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| C1 | Communicating in the aviation environment |
| IFF | Full instrument panel manoeuvres |
| NAV | Navigate aircraft |
| ONTA | Operate at non-towered aerodrome |
| OGA | Operate in Class G airspace |

Section H Private pilot licence (PPL)

# Appendix H.1 Aeroplane category rating (PPL)

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| BAKC | Basic aeronautical knowledge |
| RFRC | RPL Flight rules and air law |
| RMTC | RPL Meteorology |
| PHFC | PPL Human factors |
| RBKA | Basic aeronautical knowledge – aeroplane |
| PAKC | PPL Aeronautical knowledge |
| PFRC | PPL Flight rules and air law |
| PHFC | PPL Human factors |
| PNVC | PPL Navigation |
| PMTC | PPL Meteorology |
| POPC | PPL Ops, performance and planning |
| PAKA | PPL Aeronautical knowledge – aeroplane  |
| PFRA | PPL Flight rules and air law – aeroplane  |
| POPA | PPL Ops, performance and planning – aeroplane  |

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| C1 | Communicating in the aviation environment |
| C2 | Perform pre- and post-flight actions and procedures |
| C3 | Operate aeronautical radio  |
| C4 | Manage fuel |
| C5 | Manage passengers and cargo |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| NAV | Navigate aircraft  |
| A1 | Control aeroplane on the ground |
| A2 | Take off |
| A3 | Control aeroplane in normal flight |
| A4 | Land an aeroplane |
| A5 | Aeroplane advanced manoeuvres |
| A6 | Manage abnormal situations – single-engine aeroplanes |
| IFF | Instrument flight full panel |
| RNE | Radio navigation – en route |
| ONTA | Operate at non-towered aerodrome |
| OGA | Operate in Class G airspace |
| OCA | Operate at a controlled aerodrome |
| CTA | Operate in controlled airspace |

# Appendix H.2 Helicopter category rating (PPL)

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| BAKC | Basic aeronautical knowledge |
| RFRC | RPL Flight rules and air law |
| PHFC | PPL Human factors |
| RBKH | Basic aeronautical knowledge – helicopter |
| PAKC | PPL Aeronautical knowledge |
| PFRC | PPL Flight rules and air law |
| PHFC | PPL Human factors |
| PNVC | PPL Navigation |
| PMTC | PPL Meteorology |
| POPC | PPL Ops performance and planning |
| PAKH | PPL Aeronautical knowledge – helicopter  |
| PFRH | PPL Flight rules and air law – helicopter  |
| POPH | PPL Ops, performance and planning – helicopter  |

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| C1 | Communicating in aviation environment |
| C2 | Perform pre- and post-flight actions and procedures |
| C3 | Operate aeronautical radio  |
| C4 | Manage fuel |
| C5 | Manage passengers and cargo |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| NAV | Navigate aircraft |
| H1 | Control helicopter on the ground – stationary |
| H2 | Control helicopter in lift-off, hover and landing |
| H3 | Taxi helicopter |
| H4 | Take-off helicopter and approach to hover |
| H5 | Control helicopter in normal flight |
| H6 | Control helicopter during advanced manoeuvres |
| H7 | Manage abnormal situations and emergencies – helicopter |
| IFF | Instrument flight full panel |
| RNE | Radio navigation – en route |
| ONTA | Operate at non-towered aerodrome |
| OGA | Operate in Class G airspace |
| OCA | Operate at a controlled aerodrome |
| CTA | Operate in controlled airspace |

# Appendix H.3 Powered-lift category rating (PPL) *– Reserved*

# Appendix H.4 Gyroplane category rating (PPL) *– Reserved*

# Appendix H.5 Airship category rating (PPL) *– Reserved*

Section I Commercial pilot licence (CPL)

# Appendix I.1 Aeroplane category rating (CPL)

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| BAKC | Basic aeronautical knowledge |
| RFRC | RPL Flight rules and air law |
| RMTC | RPL Meteorology |
| PHFC | PPL Human factors |
| RBKA | Basic aeronautical knowledge – aeroplane |
| PAKC | PPL Aeronautical knowledge |
| PFRC | PPL Flight rules and air law |
| PHFC | PPL Human factors |
| PNVC | PPL Navigation |
| PMTC | PPL Meteorology |
| POPC | PPL Ops, performance and planning |
| PAKA | PPL Aeronautical knowledge – aeroplane  |
| PFRA | PPL Flight rules and air law – aeroplane  |
| POPA | PPL Ops, performance and planning – aeroplane  |
| CAKC | CPL Aeronautical knowledge |
| CADC | CPL Aerodynamics |
| CFRC | CPL Flight rules and air law |
| CHFC | CPL Human factors |
| CNVC | CPL Navigation |
| CMTC | CPL Meteorology |
| COPC | CPL Ops, performance and planning |
| CAKA | CPL Aeronautical knowledge – aeroplane |
| CADA | CPL Aerodynamics – aeroplane |
| CFRA | CPL Flight rules and air law – aeroplane |
| COPA | CPL Ops, performance and planning – aeroplane |

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| C1 | Communicating in the aviation environment |
| C2 | Perform pre- and post-flight actions and procedures |
| C3 | Operate aeronautical radio  |
| C4 | Manage fuel |
| C5 | Manage passengers and cargo |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| NAV | Navigate aircraft |
| A1 | Control aeroplane on the ground |
| A2 | Take-off aeroplane  |
| A3 | Control aeroplane in normal flight |
| A4 | Land aeroplane |
| A5 | Aeroplane advanced manoeuvres |
| A6 | Manage abnormal situations – single-engine aeroplanes |
| IFF | Instrument flight full panel  |
| IFL | Limited instrument panel manoeuvres |
| RNE | Radio navigation – en route |
| ONTA | Operate at non-towered aerodrome |
| OGA | Operate in Class G airspace |
| OCA | Operate at a controlled aerodrome |
| CTA | Operate in controlled airspace |

# Appendix I.1 Helicopter category rating (CPL)

## Aeronautical knowledge standards

| **Unit code** | **Unit of knowledge** |
| --- | --- |
| BAKC | Basic aeronautical knowledge |
| RFRC | RPL Flight rules and air law |
| PHFC | PPL Human factors |
| RBKH | Basic aeronautical knowledge – helicopter |
| PAKC | PPL Aeronautical knowledge |
| PFRC | PPL Flight rules and air law |
| PHFC | PPL Human factors |
| PNVC | PPL Navigation |
| PMTC | PPL Meteorology |
| POPC | PPL Ops performance and planning |
| PAKH | PPL Aeronautical knowledge – helicopter  |
| PFRH | PPL Flight rules and air law – helicopter  |
| POPH | PPL Ops, performance and planning – helicopter  |
| CAKC | CPL Aeronautical knowledge |
| CADC | CPL Aerodynamics |
| CFRC | CPL Flight rules and air law |
| CHFC | CPL Human factors |
| CNVC | CPL Navigation |
| CMTC | CPL Meteorology |
| COPC | CPL Ops, performance and planning |
| CAKH | CPL Aeronautical knowledge – helicopter |
| CADH | CPL Aerodynamics – helicopter |
| CFRH | CPL Flight rules and air law – helicopter |
| COPH | CPL Ops, performance and planning – helicopter |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| C1 | Communicating in the aviation environment |
| C2 | Perform pre- and post-flight actions and procedures |
| C3 | Operate aeronautical radio  |
| C4 | Manage fuel |
| C5 | Manage passengers and cargo |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| NAV | Navigate aircraft  |
| H1 | Control helicopter on the ground – stationary |
| H2 | Control helicopter in lift-off, hover and landing |
| H3 | Taxi helicopter |
| H4 | Take-off helicopter and approach to hover |
| H5 | Control helicopter in normal flight |
| H6 | Control helicopter during advanced manoeuvres |
| H7 | Manage abnormal situations and emergencies – helicopter |
| IFF | Instrument flight full panel |
| IFL | Limited instrument panel manoeuvres |
| RNE | Radio navigation – en route |
| ONTA | Operate at non-towered aerodrome |
| OGA | Operate in Class G airspace |
| OCA | Operate at a controlled aerodrome |
| CTA | Operate in controlled airspace |

# Appendix I.3 Powered-lift category rating (CPL) *– Reserved*

# Appendix I.4 Gyroplane category rating (CPL) *– Reserved*

# Appendix I.5 Airship category rating (CPL) *– Reserved*

Section J Multi crew Pilot Licence (MPL)

# Appendix J.1 Aeroplane category rating (MPL)

## Aeronautical knowledge standards

| **Unit code** | **Unit of knowledge** |
| --- | --- |
| BAKC | Basic aeronautical knowledge |
| RFRC | RPL Flight rules and air law |
| RMTC | RPL Meteorology |
| PHFC | PPL Human factors |
| RBKA | Basic aeronautical knowledge – aeroplane |
| PAKC | PPL Aeronautical knowledge |
| PFRC | PPL Flight rules and air law |
| PHFC | PPL Human factors |
| PNVC | PPL Navigation |
| PMTC | PPL Meteorology |
| POPC | PPL Ops, performance and planning |
| PAKA | PPL Aeronautical knowledge – aeroplane  |
| PFRA | PPL Flight rules and air law – aeroplane  |
| POPA | PPL Ops, performance and planning – aeroplane  |
| CAKC | CPL Aeronautical knowledge |
| CADC | CPL Aerodynamics |
| CFRC | CPL Flight rules and air law |
| CHFC | CPL Human factors |
| CNVC | CPL Navigation |
| CMTC | CPL Meteorology |
| COPC | CPL Ops, performance and planning |
| CAKA | CPL Aeronautical knowledge – aeroplane |
| CADA | CPL Aerodynamics – aeroplane |
| CFRA | CPL Flight rules and air law – aeroplane |
| COPA | CPL Ops, performance and planning – aeroplane |
| AAGC | ATP Aircraft general knowledge – common |
| AAGA | ATP Aircraft general knowledge – aeroplane |
| AFRC | ATP Flight rules and air law – common |
| AFRA | ATP Flight rules and air law – aeroplane |
| AHFC | ATP Human factors |
| ANVC | ATP Navigation – common  |
| ANVA | ATP Navigation – aeroplane |
| AMTC | ATP Meteorology – common |
| AMTA | ATP Meteorology – aeroplane |
| AFPC | ATP Flight planning – common |
| AFPA | ATP Flight planning – aeroplane |
| APLC | ATP Performance and loading – common  |
| APLA | ATP Performance and loading – aeroplane |
| IREX | Instrument rating |

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| C1 | Communicating in the aviation environment |
| C3 | Operate aeronautical radio  |
| C2 | Perform pre- and post-flight actions and procedures |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| C5 | Manage passengers and cargo |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| NAV | Navigate aircraft |
| RNE | Radio navigation – en route |
| MCO | Manage flight during multi-crew operations |
| CIR | Conduct an IFR flight |
| TR-MEA | Type rating multi-engine aeroplane  |
| IAP2 | Conduct an instrument approach 2D |
| IAP3 | Conduct an instrument approach 3D |

Section K Air transport pilot licence (ATPL)

# Appendix K.1 Aeroplane category rating (ATPL)

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| AAGC | ATP Aircraft general knowledge – common |
| AAGA | ATP Aircraft general knowledge – aeroplane |
| AFRC | ATP Flight rules and air law – common |
| AFRA | ATP Flight rules and air law – aeroplane |
| AHFC | ATP Human factors |
| ANVC | ATP Navigation – common  |
| AMTC | ATP Meteorology – common |
| AFPC | ATP Flight planning – common |
| AFPA | ATP Flight planning – aeroplane |
| APLC | ATP Performance and loading – common  |
| APLA | ATP Performance and loading – aeroplane |
| IREX | Instrument rating |

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| C2 | Perform pre- and post-flight actions and procedures |
| C3 | Operate aeronautical radio  |
| C5 | Manage passengers and cargo |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres  |
| IFL | Limited instrument panel manoeuvres |
| RNE | Radio navigation – en route |
| MCO | Manage flight during multi-crew operations |
| CIR | Conduct an IFR flight |
| IAP2 | Conduct an instrument approach 2D |
| IAP3 | Conduct an instrument approach 3D |
| TR-MEA | Type rating multi-engine aeroplane  |

# Appendix K.2 Helicopter category rating (ATPL)

## Aeronautical knowledge standards

| **Unit code** | **Unit of knowledge** |
| --- | --- |
| AAGC | ATP Aircraft general knowledge – common |
| AAGH | ATP Aircraft general knowledge – helicopter |
| AFRC | ATP Flight rules and air law – common |
| AFRH | ATP Flight rules and air law – helicopter |
| AHFC | ATP Human factors |
| ANVC | ATP Navigation – common  |
| AMTC | ATP Meteorology – common |
| AFPC | ATP Flight planning – common  |
| AFPH | ATP Flight planning – helicopter |
| APLC | ATP Performance and loading – common |
| APLH | ATP Performance and loading – helicopter |

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| C2 | Perform pre- and post-flight actions and procedures |
| C3 | Operate aeronautical radio  |
| C5 | Manage passengers and cargo |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres  |
| IFL | Limited instrument panel manoeuvres |
| NAV | Navigate aircraft |
| RNE | Radio navigation – en route |
| MCO | Manage flight during multi-crew operations |
| HSE | Helicopter single-engine class/type rating |
| HME | Helicopter multi-engine type rating  |

# Appendix K.3 Powered-lift category rating (ATPL) *– Reserved*

Section L Aircraft ratings and endorsements

Pilot class ratings and design feature endorsements

# Appendix L.1 Single-engine aeroplane class rating

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| C2 | Perform pre- and post-flight actions and procedures |
| C4 | Manage fuel |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| A1 | Control aeroplane on the ground |
| A2 | Take-off aeroplane  |
| A3 | Control aeroplane in normal flight |
| A4 | Land aeroplane |
| A5 | Aeroplane advanced manoeuvres |
| A6 | Manage abnormal situations – single-engine aeroplanes |

# Appendix L.2 Single-engine helicopter class rating

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| C2 | Perform pre- and post-flight actions and procedures |
| C4 | Manage fuel |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| H1 | Control helicopter on the ground – stationary |
| H2 | Control helicopter in lift-off, hover and landing |
| H3 | Taxi helicopter |
| H4 | Take-off helicopter and approach to hover |
| H5 | Control helicopter in normal flight |
| H6 | Control helicopter during advanced manoeuvres |
| H7 | Manage abnormal situations and emergencies – helicopter |

# Appendix L.3 Single-engine gyroplane class rating

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| GSE | Gyroplane single engine |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |

# Appendix L.4 Multi-engine aeroplane class rating

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| C2 | Perform pre- and post-flight actions and procedures |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| A1 | Control aeroplane on the ground |
| A2 | Take off  |
| A3 | Control aeroplane in normal flight |
| A4 | Land aeroplane |
| A5 | Aeroplane advanced manoeuvres |
| IFF | Instrument flight full panel |
| AME | Operate multi-engine aeroplane |

Design feature endorsements

# Appendix L.5 Tailwheel undercarriage endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| DFE1 | Tailwheel aeroplane |

# Appendix L.6 Retractable undercarriage endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| DFE2 | Retractable undercarriage |

# Appendix L.7 Manual propeller pitch control endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| DFE3 | Manual propeller pitch control |

# Appendix L.8 Gas turbine engine endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| DFE4 | Gas turbine engine |

# Appendix L.9 Multi-engine Centreline thrust endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| DFE5 | Multi-engine centreline thrust aeroplane |

# Appendix L.10 Pressurisation system endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| DFE6 | Pressurisation system |

# Appendix L.11 Floating hull endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| DFE7 | Floating hull |

# Appendix L.12 Floatplane endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| DFE8 | Floatplane and amphibious aircraft |

# Appendix L.13 Float alighting gear endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| DFE9 | Helicopter float alighting gear |

Pilot type ratings

# Appendix L.14 Single-engine aeroplane type rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| TYPA | Type rating – single-engine aeroplane |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| TR-SEA | Type rating – single-engine aeroplane  |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |

# Appendix L.15 Single-engine helicopter type rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| TYPH | Type rating – helicopter |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| TR-SEH | Type rating single-engine helicopter |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |

# Appendix L.16 Multi-engine aeroplane type rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| TYPA | Type rating – aeroplane |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| AME | Operate multi-engine aeroplane  |
| TR-MEA | Type rating – multi-engine aeroplane |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |

# Appendix L.17 Multi-engine helicopter type rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| TYPH | Type rating – helicopter |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| TR-MEH | Type rating multi-engine helicopter |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |

# Appendix L.18 Cruise relief aeroplane type rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| TYPA | Type rating – aircraft |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| CRT | Cruise relief type rating |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |

Section M Instrument rating and endorsements

# Appendix M.1 Instrument rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| IREX | Instrument rating |
| GNSS | Basic GNSS and en route GNSS navigation principles |

# Appendix M.2 Single-engine aeroplane instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| CIR | Conduct an IFR flight |
| NVR1 | Conduct a traffic pattern at night |
| NVR2 | Night VFR – single-engine aircraft |
| IAP2 | Conduct an instrument approach 2D |

# Appendix M.3 Multi-engine aeroplane instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| CIR | Conduct an IFR flight |
| NVR1 | Conduct a traffic pattern at night |
| NVR3 | Night VFR – multi-engine aircraft |
| IAP2 | Conduct an instrument approach 2D |

# Appendix M.4 Single-engine helicopter instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| CIR | Conduct an IFR flight |
| NVR1 | Conduct a traffic pattern at night |
| NVR2 | Night VFR – single-engine aircraft |
| IAP2 | Conduct an instrument approach 2D |

# Appendix M.5 Multi-engine helicopter instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| CIR | Conduct an IFR flight |
| NVR1 | Conduct a traffic pattern at night |
| NVR3 | Night VFR – multi-engine aircraft |
| IAP2 | Conduct an instrument approach 2D |

# Appendix M.6 Powered-lift aircraft instrument endorsement *– Reserved*

# Appendix M.7 Gyroplane instrument endorsement *– Reserved*

# Appendix M.8 Airship instrument endorsement *– Reserved*

# Appendix M.9 IAP 2D instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| IAP2 | Conduct an instrument approach 2D |

# Appendix M.10 IAP 3D instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| IAP3 | Conduct an instrument approach 3D |

Section N Private instrument ratings and endorsements

# Appendix N.1 Private instrument ratings (PIFR)

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| PIFR | Private IFR rating |
| GNSS | Basic GNSS and en route GNSS navigation principles |

# Appendix N.2 Single-engine aeroplane private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| PIF | Conduct a private IFR flight |

# Appendix N.3 Multi-engine aeroplane private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| PIF | Conduct a private IFR flight |

# Appendix N.4 Single-engine helicopter private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| PIF | Conduct a private IFR flight |

# Appendix N.5 Multi-engine helicopter private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| PIF | Conduct a private IFR flight |

# Appendix N.6 Navigation – NDB private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR flight |

# Appendix N.7 Navigation – VOR/LLZ private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR flight |

# Appendix N.8 Navigation – GNSS private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR flight |

# Appendix N.9 Departure – Single-engine aircraft private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR flight |

# Appendix N.10 Departure – Multi-engine aeroplane private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR flight |

# Appendix N.11 Departure – Multi-engine helicopter private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR flight |

# Appendix N.12 Standard instrument departure private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR flight |

# Appendix N.13 STAR private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR flight |

# Appendix N.14 Approach – NDB private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| IAP2 | Conduct an instrument approach 2D |

# Appendix N.15 Approach – VOR/LLZ private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| IAP2 | Conduct an instrument approach 2D |

# Appendix N.16 Approach – DME or GNSS Arrival private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| IAP2 | Conduct an instrument approach 2D |

# Appendix N.17 Approach – RNP APCH 2D private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| IAP2 | Conduct an instrument approach 2D |

# Appendix N.18 Approach – RNP APCH 3D private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| IAP3 | Conduct an instrument approach 3D |

# Appendix N.19 Approach – ILS private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| IAP3 | Conduct an instrument approach 3D |

# Appendix N.20 Approach and landing – multi-engine aeroplane private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR Flight |

# Appendix N.21 Approach and landing – multi-engine helicopter private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR flight |

# Appendix N.22 Night private instrument endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| PIF | Conduct a private IFR flight |
| NVR1 | Conduct a traffic pattern at night |
| NVR2 | Night VFR — single-engine aircraft |
| NVR3 | Night VFR — multi-engine aircraft |

Section O Night VFR (NVFR) rating and endorsements

# Appendix O.1 NVFR rating

## Aeronautical knowledge standards *– Reserved*

# Appendix O.2 Single-engine aeroplane NVFR endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| NVR1 | Conduct a traffic pattern at night |
| NVR2 | Night VFR — single-engine aircraft |

# Appendix O.3 Multi-engine aeroplane NVFR endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| NVR1 | Conduct a traffic pattern at night |
| NVR3 | Night VFR — multi-engine aircraft |

# Appendix O.4 Helicopter NVFR endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| NVR1 | Conduct a traffic pattern at night |
| NVR2 | Night VFR – single-engine aircraft |

# Appendix O.5 Powered-lift aircraft NVFR endorsement *– Reserved*

# Appendix O.6 Gyroplane NVFR endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| IFF | Full instrument panel manoeuvres |
| IFL | Limited instrument panel manoeuvres |
| NVR1 | Conduct a traffic pattern at night |
| NVR2 | Night VFR — single-engine aircraft |

# Appendix O.7 Airship NVFR endorsement *– Reserved*

Section P Night vision imaging system (NVIS) rating and endorsements

# Appendix P.1 NVIS rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| NVIS | NVIS rating |

# Appendix P.2 Grade 1 NVIS endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| NVI | NVIS operation |

# Appendix P.3 Grade 2 NVIS endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| NVI | NVIS operation |

Section Q Low-level rating and endorsements

# Appendix Q.0 Low-level rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| LLLR | Low-level rating  |

# Appendix Q.1 Aeroplane low-level endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| LL-A | Aeroplane low-level operations |

# Appendix Q.2 Helicopter low-level endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| LL-H | Helicopter low-level operations |

# Appendix Q.3 Powered-lift aircraft low-level endorsement *– Reserved*

# Appendix Q.4 Gyroplane low-level endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| LL-G | Gyroplane low-level operations |

# Appendix Q.5 Aerial mustering – aeroplane endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| LL-A | Aeroplane low-level operations |
| LL-M | Aerial mustering operations |

# Appendix Q.6 Aerial mustering – helicopter endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| LL-H | Helicopter low-level operations |
| LL-M | Aerial mustering operations |

# Appendix Q.7 Aerial mustering – gyroplane endorsement *– Reserved*

# Appendix Q.8 Sling operations endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| LL-H | Helicopter low-level operations |
| LL-SO | Sling operations |

# Appendix Q.9 Winch and rappelling operations endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| LL-H | Helicopter low-level operations |
| LL-WR | Winch and rappelling operations |

Section R Aerial application rating and endorsements

# Appendix R.0 Aerial application rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| AAGR | Aerial application rating  |

# Appendix R.1 Aeroplane aerial application endorsement

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| AAGA | Aerial application rating — aeroplane  |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| LL-A | Aeroplane low-level operations |
| AA1 | Aeroplane aerial application operation |

# Appendix R.2 Helicopter aerial application endorsement

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| AAGH | Aerial application rating — helicopter |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2  |
| LL-H | Helicopter low-level operations |
| AA2 | Helicopter aerial application operation |

# Appendix R.3 Gyroplane aerial application endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| AA3 | Gyroplane aerial application operation |

# Appendix R.4 Aeroplane firefighting endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| LL-A | Aeroplane low-level operations |
| AA4 | Aeroplane firefighting operation |

# Appendix R.5 Helicopter firefighting endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| LL-H | Helicopter low-level operations |
| AA5 | Helicopter firefighting operation |

# Appendix R.6 Night aeroplane aerial application endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| NVR2 | Night VFR – single-engine aircraft |
| AA6 | Night aerial application operation |

# Appendix R.7 Night helicopter aerial application endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| NVR2 | Night VFR – single-engine aircraft |
| AA6 | Night aerial application operation |

# Appendix R.8 Night gyroplane aerial application endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| NVR2 | Night VFR — single-engine aircraft |
| AA6 | Night aerial application operation |

Section S Flight activity endorsements

# Appendix S.1 Aerobatics flight activity endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| FAE-2 | Aerobatics — 3,000 ft AGL |
| FAE-8 | Spinning |

# Appendix S.2 Aerobatics (1,500) flight activity endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| FAE-2 | Aerobatics — 3,000 ft AGL |
| FAE-3 | Aerobatics — 1,500 ft AGL |
| FAE-8 | Spinning |

# Appendix S.3 Aerobatics (1,000) flight activity endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| FAE-2 | Aerobatics — 3,000 ft AGL |
| FAE-3 | Aerobatics — 1,500 ft AGL |
| FAE-4 | Aerobatics — 500 ft AGL |
| FAE-8 | Spinning |

# Appendix S.4 Aerobatics (500) flight activity endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| FAE-2 | Aerobatics — 3,000 ft AGL |
| FAE-3 | Aerobatics — 1,500 ft AGL |
| FAE-4 | Aerobatics — 500 ft AGL |
| FAE-8 | Spinning |

# Appendix S.5 Aerobatics (unlimited) flight activity endorsement

## Practical flight standards

|  |  |
| --- | --- |
| FAE-2 | Aerobatics — 3,000 ft AGL |
| FAE-3 | Aerobatics — 1,500 ft AGL |
| FAE-4 | Aerobatics — 500 ft AGL |
| FAE-5 | Aerobatics – Unlimited |
| FAE-8 | Spinning |

# Appendix S.6 Formation flying (aeroplane) flight activity endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| FAE-6 | Formation flying aeroplane |

# Appendix S.7 Formation aerobatics flight activity endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| FAE-2 | Aerobatics — 3,000 ft AGL |
| FAE-6 | Formation flying aeroplane |
| FAE-7 | Aerobatics (formation) |
| FAE-8 | Spinning |

# Appendix S.8 Spinning flight activity endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| FAE-8 | Spinning |

# Appendix S.9 Formation flying (helicopter) flight activity endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| FAE-9 | Formation flying helicopter |

Section T Pilot instructor rating and endorsements

Flight instructor rating

# Appendix T.01 Flight instructor ratings

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| FIRC | Instructor rating — common |

Simulator instructor rating

# Appendix T.02 Simulator instructor rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| FIRC | Instructor rating — common |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| SIR | Conduct training in a synthetic training device |
| FIR7 | Conduct flight review |

Training endorsements

# Appendix T.1 Grade 1 training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FIR7 | Conduct flight review |

# Appendix T.2 Grade 2 training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FIR7 | Conduct a flight review |

# Appendix T.3 Grade 3 training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.3A Grade 3 training endorsement (aeroplane)

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.4 Multi-crew pilot training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR9 | Multi-crew training endorsement  |

# Appendix T.5 Type rating training endorsement (type specific)

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FIR9 | Multi-crew training endorsement  |

# Appendix T.6 Multi-engine aeroplane training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FIR7 | Conduct flight review |

# Appendix T.7 Design feature endorsement training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.8 Instrument rating training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.9 Night VFR rating training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FIR7 | Conduct flight review |

# Appendix T.10 NVIS rating training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.11 Low-level rating training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FIR7 | Conduct flight review |

# Appendix T.12 Aerial application rating (day) training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.13 Aerial application rating (night) training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.14 Instructor rating training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.15 Multi-engine aeroplane class rating instructor training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FIR7 | Conduct flight review |

# Appendix T.16 Sling operations training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills  |
| NTS2 | Non-technical skills 2 |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FIR7 | Conduct flight review |

# Appendix T.17 Winch and rappelling operations training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FIR7 | Conduct flight review |

# Appendix T.18 Spinning training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.19 Aerobatics training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.20 Formation (aeroplane) training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.21 Formation (helicopter) training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.22 Formation aerobatics training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

# Appendix T.23 Glider towing training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |

Section U Flight examiner rating and endorsements

# Appendix U.0 Flight Examiner Rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| FERC | Flight examiner rating – common |

# Appendix U.1 Private pilot licence flight test endorsement (category-specific)

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FER | Conduct a flight test |

# Appendix U.2 Commercial pilot licence flight test endorsement (category- specific)

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FER | Conduct a flight test |

# Appendix U.3 Air transport pilot flight test endorsement (category-specific)

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FER | Conduct a flight test |

# Appendix U.4 Multi-engine aeroplane class rating flight test endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FER | Conduct a flight test |

# Appendix U.5 Type rating flight test endorsement (type-specific)

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FER | Conduct a flight test |

# Appendix U.6 Instrument rating flight test endorsement (category-specific)

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FER | Conduct a flight test |

# Appendix U.7 Night VFR rating flight test endorsement (category-specific)

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FER | Conduct a flight test |

# Appendix U.8 NVIS flight test endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FER | Conduct a flight test |

# Appendix U.9 Low-level rating flight test endorsement (category-specific)

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FER | Conduct a flight test |

# Appendix U.10 Aerial application rating flight test endorsement (category‑specific)

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FER | Conduct a flight test |

# Appendix U.11 Flight instructor rating flight test endorsement (category-specific)

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1 |
| NTS2 | Non-technical skills 2 |
| FER | Conduct a flight test |

# Appendix U.12 English language assessment endorsement — Reserved

Section V Flight engineer licence, ratings and endorsements

# Appendix V.1 Flight engineer licence

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| FFRC | FE Flight rules and air law — all aircraft categories |
| FAGC | FE Aircraft general knowledge — all aircraft categories |
| AHFC | ATPL Human factors |
| RARO | RPL Aeronautical radio operator |
| CAKA | CPL Aeronautical knowledge — aeroplane |
| CMTC | CPL Meteorology — all aircraft categories |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| AEL | Aviation English language proficiency |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| C2 | Perform pre- and post-flight actions and procedures |
| C3 | Operate aeronautical radio |

Section W Flight engineer type rating

# Appendix V.2 Flight engineer type rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| TYPA | Type rating  |

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FTM | Flight engineer type rating — all categories |

Section X Flight engineer instructor rating

# Appendix X.0 Flight engineer instructor rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| FIRC | Instructor rating — common |

# Appendix X.1 Flight engineer type rating training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| SIR | Conduct training in a synthetic training device |

# Appendix X.2 Flight engineer instructor rating training endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| SIR | Conduct training in a synthetic training device |

Section Y Flight engineer examiner rating and endorsements

# Appendix Y.0 Flight engineer examiner rating

## Aeronautical knowledge standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of knowledge** |
| FERC | Flight examiner rating — common |

# Appendix Y.1 Flight engineer type rating flight test endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FER | Conduct a flight test |
| SIR | Conduct training in a synthetic training device |

# Appendix Y.2 Flight engineer instructor rating flight test endorsement

## Practical flight standards

|  |  |
| --- | --- |
| **Unit code** | **Unit of competency** |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FER | Conduct a flight test |
| SIR | Conduct training in a synthetic training device |

# Appendix Y.3 Flight engineer examiner rating flight test endorsement

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| FIR1 | Conduct aeronautical knowledge training  |
| FIR2 | Assess competence  |
| FIR3 | Conduct flight training  |
| FER | Conduct a flight test |
| SIR | Conduct training in a synthetic training device |

# Appendix Y.4 English language assessment endorsement *— Reserved*

Section Z Glider pilot licence

# Appendix Z.1 Glider pilot licence

## Practical flight standards

| **Unit code** | **Unit of competency** |
| --- | --- |
| G1 | Control glider on the ground |
| G2 | Take-off glider |
| G3 | Control glider in normal flight |
| G4 | Land glider |
| G5 | Glider advanced manoeuvres |
| G6 | Manage abnormal situations and emergencies — gliders |
| G7 | Navigation — gliders |
| NTS1 | Non-technical skills 1  |
| NTS2 | Non-technical skills 2  |
| PPF-G | Perform pre- and post-flight actions and procedures — gliders |