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| Overview |
| This syllabus describes the flight training and assessment activities to be undertaken during the multi-engine aeroplane class rating training course. The aim of the course is to provide the student with the required skills, knowledge and attitudes to safely exercise the privileges of the rating.  Flight training lessons include aeroplane general handling, basic and advanced manoeuvres, circuit operations, basic instrument flight, simulated abnormal situations including asymmetric flight, and human factors and non-technical skills awareness and application.  The privileges and limitations of the multi-engine aeroplane class rating are defined in CASR Part 61 Division 61.L.3. |
| **Competency Standards** |
| **Practical flight competency standards**  Flight training is provided to allow the student to meet the prescribed Part 61 MOS practical flight competency standards. Student performance is assessed against these flight competency standards. The standards required for the completion of the course and the issue of the rating are contained in the following units of competency:   |  |  | | --- | --- | | **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 an aeroplane | | A5 | Aeroplane advanced manoeuvres | | IFF | Instrument flight full panel | | AME | Operate multi-engine aeroplane |   **Aeronautical knowledge** **standards**  The knowledge required to meet the aeronautical knowledge standards prescribed by the Part 61 MOS may be attained through student self-study or more formal training. Theory topics and content are described in the following unit of knowledge:   |  |  | | --- | --- | | **Unit code** | **Unit of knowledge** | | MECR | Multi-engine aeroplane class rating | |

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| Course prerequisites |
| Students must hold a private, commercial or air transport pilot licence, and an aeroplane category rating. *(CASR 61.750 & 61.760)*  The retractable undercarriage design feature endorsement and manual propeller pitch control (piston engine) design feature endorsement are also prerequisites to this course. |

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| Course duration |
| The course may be undertaken on a part-time or full-time basis.  The syllabus is based on a total flight time of 8 hours inclusive of the multi-engine aeroplane class rating flight test; however the total flight time required to achieve competency will vary from student to student.  Students who are not current and proficient in single engine aeroplane operations may require additional training. |
| **Course resources** |
| Flight training is undertaken in the BE76.  Other resources include a model aeroplane, cockpit cut-out, and an instrument flight hood or foggles. |
| **Syllabus documentation** |
| Syllabus documentation includes:   * a planning matrix * a flight training and theory examination summary * a lesson plan and training record for each flight   Refer to Part 5A/Section 5.1\* of the operations manual for a guide to the use of the syllabus documents. |
| **Lesson sequence and allowable variations** |
| The flight training and theory examination summary provides the sequence of flight training lessons.  The lesson sequence is designed to allow students to become confident in normal operations prior to introducing asymmetric flight. Consequently, the sequence of lessons should not be modified. |
| **Asymmetric training - simulation of engine failure/malfunction** |
| Simulation of engine failure/malfunction must only be conducted in accordance with the specific information contained within the Pilot’s Operating Handbook, and under the following conditions:   * *[Provide specific instructions, limitations and operating procedures in relation to simulation of an engine failure and the conduct of asymmetric flight. For guidance refer to CAAP 5.23-1(2)]* |
| **Solo flight** |
| This course does not include a solo flight component. |

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| ****Instructor requirements**** |
| Instructors are to hold training endorsements for multi engine aeroplane class rating, and the retractable undercarriage and manual propeller pitch control design feature. |
| **Aeronautical knowledge examination** |
| Successful completion of the following examination is required during the course:  **Prior to flight test** - Multi engine aeroplane class rating aeronautical knowledge examination  This examination has been set by [Sample Aviation] in accordance with the aeronautical knowledge standards mentioned in the Part 61 MOS, as a means for students to demonstrate they hold the required knowledge. The pass mark is 70%.  The flight training and theory examination summary sets out the recommended sequence for the aeronautical knowledge examination and flight lessons. To avoid training delays, instructors should ensure students complete the examination in this sequence.  Aeronautical knowledge examinations are conducted in the ground examination facility. Refer to Part 3E/Section 3.7\* for further information regarding the conduct of these exams.  **Knowledge Deficiency Reports**  If a student passes the MEACR aeronautical knowledge examination with a score of less than 100%, a report shall be prepared about the competency standards in which the student’s knowledge is deficient (a knowledge deficiency report). Following further self-study, an instructor holding a grade 1 or 2 training endorsement must orally assess the student’s knowledge to ensure the deficiencies noted on the knowledge deficiency report have been addressed (i.e. knowledge corrected to 100%). |

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| Flight test |
| Upon successful completion of the course students must pass the multi engine aeroplane class rating flight test, prior to the rating being issued.  The test is conducted by a flight examiner and involves a ground component and a flight of approximately 1.5 hours.  Flight test standards are contained in Schedule 5 App L.2 to the Part 61 MOS. Manoeuvres must be performed within the flight tolerances specified in table 1, Section 1 of Schedule 8 of the MOS.  For flight test procedures and information regarding the booking of flight tests, refer to section 3F1/3.8.1\*. |
| **Document control and access information** |
| This syllabus is a managed document and is uncontrolled if printed. Refer to the version number and date in the footer to ensure that the current syllabus is being referenced.  It is available in electronic format. Paper copies are also provided for use by instructors and students.  Syllabus documentation is to be read in conjunction with [Sample Aviation]’s operations manual, CASR Parts 61, 141 and the Part 61 Manual of Standards. |

\*MAAT manual reference