



Australian Government

Assessment Requirements for MEA342 Apply basic aircraft power plant design characteristics

Release: 2

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Modification History

Release 2. Equivalent to MEA342 Apply basic aircraft power plant design characteristics with amended prerequisite codes.

Performance Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria under the specified conditions of assessment, and must include:

- identifying the different types of aircraft power plant and their relative advantages and applications
- identifying power plant maintenance and monitoring requirements
- identifying different types of propellers and their applications
- selecting power plants for aeroplanes and rotary wing aircraft given the applicable performance characteristics.

Knowledge Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- basic power plant characteristics
- basic propeller theory and characteristics
- use of non-destructive testing (NDT) in power plant maintenance
- power plant maintenance requirements including the use of engine condition monitoring.

Assessment Conditions

- This unit may be assessed off the job in a training environment equipped to provide exposure to the relevant aircraft design characteristics and to theory of flight.
- The candidate must have access to all tools, equipment, materials and documentation required and must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials. The assessment environment should not disadvantage the candidate.
- Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts.
- Assessors should gather a range of evidence that is valid, sufficient, current and authentic. Evidence can be gathered through a variety of ways including direct observation, teacher's reports, project work, samples and questioning. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency.

- Assessors must satisfy the requirements of the National Vocational Education and Training Regulator (Australian Skills Quality Authority, or its successors).

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>