Assessment Requirements for MEA271 Lay out avionic flight management systems

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Modification History

Release 2. Equivalent to MEA271 Lay out avionic flight management systems 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:

•   sketching typical avionic flight management systems at block diagram level.

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.

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:

•   the atmosphere
•   pitot static systems
•   magnetism
•   function of gyroscopes
•   use of synchros and servos
•   basics of analogue electronics
•   aircraft instrument systems and their components
•   aircraft instrument system maintenance requirements
•   radio, navigation and radar basics
•   aircraft communication, pulse and radio navigation systems and their components
•   communication, pulse and radio navigation system maintenance requirements
•   basics of digital electronics
•   basic computer architecture
•   use of data buses
•   automatic flight control systems and their components
•   automatic engine control systems and their components
•   flight management systems and their components
•   display systems and their components
•   aircraft electronic system maintenance requirements.

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Assessment Conditions

- This unit may be assessed off the job in a training environment equipped to provide exposure to the range of system types and components. 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 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, supervisor'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.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371