



Australian Government

Assessment Requirements for MEM10007 Modify control systems

Release: 2

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Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM10007 Modify control systems (Release 1).

Release 1. Supersedes and is equivalent to MEM10007C Modify control systems.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting specifications and drawings for determining control system to meet specifications and control application
- planning commissioning procedure involving the development of a commissioning procedure, testing of operation and adjustment to conform to specification
- verifying control system components, including all instruments and devices which make up or control a loop/system against specifications
- using appropriate test equipment to check control system installation in accordance with specifications in a safe and effective manner
- adjusting control loop/system components and making final verifications to ensure required performance of control application
- making modifications to change performance to meet specifications and safety and legislative requirements
- providing reports where required and documenting all modifications in accordance with SOPs.

Knowledge Evidence

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

- safe work practices and procedures and use of personal protective equipment (PPE)
- control system format
- operational intent of the processes being controlled by the control system
- specifications of the control system and the processes being controlled
- regulatory and legislative requirements associated with the commissioning procedure
- procedures for commissioning the control system
- procedures for ensuring that control characteristics, application and process specifications are achieved
- components of the operational processes

- installation specifications for each component of the operational processes
- measuring techniques and equipment appropriate to the measurements to be taken
- test equipment and techniques appropriate to the commissioning of the control
- calibration procedures for the selected test equipment
- procedures for energising components and/or the control loop/system
- supply requirements of components and the control loop/system
- recording requirements for readings/measurements taken
- adjustments that can be made to the control loop/system components and effects of adjustments on the control characteristics and operational processes
- measurements/tests to be undertaken to verify control system and process operation and reasons for selecting the chosen measurements/tests
- procedures to be followed if the operational specifications of the control system and/or process cannot be achieved
- effect of changes to control system components on system performance
- appropriate authority to approve any modifications
- reporting requirements associated with the commissioning of control systems
- requirements and reasons for recording modifications.

Assessment Conditions

- Assessors must:
 - have vocational competency in modifying control systems at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires.
- Assessment must occur in a functioning workplace. Where assessment in the workplace would be unsafe, impractical or threatens the environment, assessment must occur in a sufficiently rigorous simulated environment that reflects the circumstances that would be experienced in a functioning workplace. Assessment must cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>