



Australian Government

Assessment Requirements for MEM18053 Modify fluid power control systems

Release: 2

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Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM18053 Modify fluid power control systems (Release 1).

Release 1. Supersedes and is equivalent to MEM18053B Modify fluid power 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, charts, lists, data sheets, drawings, circuit and ladder diagrams and other applicable reference documents to modify fluid power control systems
- identifying, recording and correcting deviations of control software program from specification
- modifying control system software/program and recording and backing up the modified system program
- checking input and output signals for compliance to specifications using appropriate tools, equipment and techniques
- identifying, recording and correcting faulty signals and marking the source of the faulty signal for repair or replacement
- testing and commissioning repaired/replaced signal source in accordance with specifications and procedures
- recording/reporting service activities 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)
- operational specifications and program steps and their function of the control system
- procedures for:
 - recording and correcting deviations of the control software program from specification
 - recording and backing up control system software modifications
 - recording/reporting faulty input/output signals
 - marking items for repair or replacement

- testing and commissioning signal sources into operation
- reporting service undertaken on control systems
- modifications to be made to the control system software and reasons for modifying the control system software
- tools, equipment and techniques to be used to check input and output signals for conformance to specification
- tools, equipment and techniques necessary to repair the signal source
- disassembly/assembly procedures to be followed when repairing signal sources
- specifications of the signal source
- any trends and probable causes, evident in the data collected and collated and reasons for recommended improvements.

Assessment Conditions

- Assessors must:
 - have vocational competency in modifying fluid power 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>