



**Australian Government**

# **Assessment Requirements for MEM18023 Modify fluid power system operation**

**Release: 2**

# Assessment Requirements for MEM18023 Modify fluid power system operation

## Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM18023 Modify fluid power system operation (Release 1).

Release 1. Supersedes and is equivalent to MEM18023B Modify fluid power system operation.

## 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
- obtaining, interpreting and analysing service/maintenance and system output information
- identifying and verifying defective components, sub-assemblies and design faults using appropriate tools, equipment and techniques
- investigating modification requirements, including obtaining relevant information, to overcome parts failure or design faults in consultation with appropriate personnel
- undertaking modifications to fluid power systems and checking and evaluating the operation of the modified/repaired fluid power system for compliance with operational specifications
- recording/reporting modifications in accordance with SOPs
- initiating and monitoring further corrective action until desired efficiencies/outcomes are achieved
- completing evaluation reports on the modifications/repairs in accordance with standard operating procedures.

## 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)
- fluid power system performance, faults history and variations from operational specification
- faults attributable to poor design and defective components/sub-assemblies
- appropriate test equipment and applications and techniques for verifying design faults
- personnel to be consulted during the modification process
- specifications and sources of information pertaining to the selected modification/design option

- modification/design options available to overcome system faults
- most appropriate modification/design option, including cost and benefits
- procedures for undertaking the selected modification/design option
- replacement components conforming to predetermined specifications from manufacturer's catalogues
- modifications to be undertaken
- revised operational specification of the fluid power system
- frequency of checks for compliance against operational specifications
- effectiveness and efficiency of the modifications/repairs and any variations from operational specifications
- any further modifications/repairs that could improve the effectiveness and efficiency of the fluid power system
- personnel to whom recommendations are to be made
- appropriate reporting requirements for recording/reporting modifications to fluid power systems.

## Assessment Conditions

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