



**Australian Government**

**Assessment Requirements for MEM18004  
Maintain and overhaul mechanical  
equipment**

**Release: 2**

# Assessment Requirements for MEM18004 Maintain and overhaul mechanical equipment

## Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM18004 Maintain and overhaul mechanical equipment (Release 1).

Release 1. Supersedes and is equivalent to MEM18004B Maintain and overhaul mechanical equipment.

## 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 and drawings to maintain and overhaul mechanical equipment
- performing maintenance tasks on mechanical equipment, components or sub-assemblies in accordance with procedures
- assessing mechanical equipment, components and sub-assemblies visually and with appropriate test equipment to ensure correct function or determine malfunction and make adjustments according to procedures
- diagnosing and locating faults using appropriate diagnostic techniques, including visual inspection and use of test equipment, and localising fault condition to component level
- repairing or overhauling faulty equipment using appropriate fitting techniques and principles, tools, equipment and procedures and to manufacturers' or site specifications
- fitting and adjusting mechanical systems and equipment by applying sound fitting principles and techniques to specifications
- performing final adjustments and testing mechanical equipment for accuracy and correct function to align with operational specifications and return to service in accordance with work site 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)
- preventative maintenance procedures
- functions of system/equipment and their operational requirements
- causes and symptoms of faults and failures
- system and equipment hazard identification and isolation procedures

- options for sourcing replacement parts
- consequences of incorrect adjustments
- procedures for testing the mechanical systems and equipment
- procedures for returning mechanical systems and equipment to service.

## Assessment Conditions

- Assessors must:
  - have vocational competency in maintaining and overhauling mechanical equipment 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>