



**Australian Government**

**Assessment Requirements for MEM18007  
Maintain and repair mechanical drives and  
mechanical transmission assemblies**

**Release: 1**

# **Assessment Requirements for MEM18007 Maintain and repair mechanical drives and mechanical transmission assemblies**

## **Modification History**

Release 1. Supersedes and is equivalent to MEM18007B Maintain and repair mechanical drives and mechanical transmission assemblies

## **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 repair mechanical drives and transmission assemblies
- undertaking diagnosis and testing of mechanical drives/transmissions components for wear, lubrication, faults and malfunctions using appropriate tools, equipment and techniques
- identifying assemblies requiring further diagnosis/repair or adjustment and document findings
- determining adjustment requirements of mechanical drives and transmission assemblies from manufacturers' specifications and manuals
- carrying out adjustments to specifications and confirming correct operation
- interpreting service reports and carrying out inspection of drive/transmission assembly visually, sensory and use of diagnostic test equipment to localise faults down to component level and identify for repair or replacement
- dismantling mechanical drive/transmission using appropriate tools and equipment, repairing serviceable items and re-fitting component parts in accordance with manufacturers'/site specifications
- analysing fault causes and developing preventive measures to avoid re-occurrence
- making final adjustments and commissioning to specifications and completing service report.

## **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)
- uses and characteristics of lubricants
- principles of operation of a range of mechanical drives and transmissions
- techniques, tools and equipment to measure components

- common malfunctions in mechanical drives, transmissions and their components
- procedures for checking and adjusting mechanical drives, transmissions and their components
- preventative measures that can be undertaken to avoid recurrence of the fault/failure.

## Assessment Conditions

- Assessors must:
  - have vocational competency in maintaining and repairing mechanical drives and mechanical transmission assemblies 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 include evidence of 160 hours of workplace practice associated with the skills of this unit in a functioning workplace.
- All aspects of competent application of the unit must be addressed including prerequisite competency units and associated workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Knowledge assessment may be either verbal or written but must adequately reflect the knowledge requirements of the unit and its prerequisites in a functioning workplace.
- 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.education.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>