



**Australian Government**

# **Assessment Requirements for MEM18021 Maintain hydraulic systems**

**Release: 1**

# Assessment Requirements for MEM18021 Maintain hydraulic systems

## Modification History

Release 1. Supersedes and is equivalent to MEM18021B Maintain hydraulic 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
- obtaining and interpreting maintenance reports and preventative maintenance schedules
- inspecting and testing hydraulic system components, assemblies or sub-assemblies and carrying out preventative maintenance tasks to predetermined specifications using fluid power principles, tools and equipment
- consulting with system operator and carrying out visual inspection of hydraulic system and components with respect to the fault being investigated and other anomalies
- undertaking fault-finding and verifying and confirming faults/malfunctions
- checking component parts visually and dimensionally for compliance to specification and, where appropriate, marking faulty parts for repair, replacement or adjustment
- isolating and depressurising system or sub-assembly, confirming and using appropriate tagging system according to SOPs
- removing, dismantling and repairing/overhauling faulty system components or sub-assembly, including selecting replacement parts from manufacturers'/suppliers' catalogues, to site or manufacturers' specifications
- assembling hydraulic components or sub-assembly for compliance to specifications, refitting items to equipment and testing for correct operation
- recommissioning hydraulic system/sub-assembly to specifications and verifying correct operation and initiating any follow-up procedures
- updating and completing maintenance records and/or service reports.
- 

## 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)
- hydraulic principles
- manufacturers' specifications and structure of common hydraulic system components and their constituent parts
- hydraulic system/component faults that can be determined by visual inspection

- application of common hydraulic system/component test equipment
- scheduled preventative maintenance tasks
- common hydraulic system and component faults and any previous faults
- any previous maintenance carried out on the hydraulic system/components
- typical checks/tests that can be carried out on hydraulic systems/components and their application
- hydraulic system/component tests and testing techniques
- apparent faults/malfunctions
- documentation/reporting requirements with respect to verified faults/malfunctions
- procedures for initiating repair and/or overhaul of the hydraulic system
- procedures for isolating and depressurising hydraulic systems
- tagging requirements for isolated systems
- appropriate repair/overhaul procedures of hydraulic components
- hydraulic system operational specifications and system recommissioning procedures
- any appropriate follow-up maintenance or operational checks
- maintenance recording/reporting requirements and consequences of inaccurate or incomplete recording/reporting of maintenance/service activities.

## Assessment Conditions

- Assessors must:
  - have vocational competency in maintaining hydraulic 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 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.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>

