



Australian Government

**Assessment Requirements for MEM18012
Perform installation and removal of
mechanical seals**

Release: 2

Assessment Requirements for MEM18012 Perform installation and removal of mechanical seals

Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM18012 Perform installation and removal of mechanical seals (Release 1).

Release 1. Supersedes and is equivalent to MEM18012B Perform installation and removal of mechanical seals.

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, drawings and other applicable reference documents for determining mechanical seal requirements
- dismantling mechanical seal assemblies used across different sealing applications using appropriate tools, equipment and techniques
- examining all component parts for wear and determining the need for repair/replacement and selecting replacement parts according to specifications
- reassembling/repairing mechanical seal installations using appropriate tools and equipment
- selecting and fitting replacement parts
- measuring components to specified tolerances
- adjusting mechanical seal tensions and checking for compliance to specifications.

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)
- principles of operation of mechanical seals
- components and function of a range of mechanical seal designs
- installation specifications and procedures
- techniques/tools for removing primary sealing elements and secondary seals from mechanical seals
- reasons for selection mechanical seal
- specified mechanical seal tension
- testing mechanical seals
- techniques, tools and equipment to measure components.

Assessment Conditions

- Assessors must:
 - have vocational competency in performing installation and removal of mechanical seals 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>