



**Australian Government**

# **Assessment Requirements for MEM07006 Perform lathe operations**

**Release: 2**

# Assessment Requirements for MEM07006 Perform lathe operations

## Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM07006 Perform lathe operations (Release 1).

Release 1. Supersedes and is equivalent to MEM07006C Perform lathe operations.

## 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 engineering drawings to AS 1100,401-1884 (R2014) Technical drawing to determine job requirements for lathe operations, including quantity, material, measurements and tolerances
- selecting cutting tools using International Standard Organisation (ISO) standards or according to SOPs from drawings, sketches, specifications and instructions, as appropriate
- fixing of job and tooling to specifications
- calculating and setting required speeds and feeds
- undertaking turning operations to specifications
- checking components for conformance to specifications
- rectifying non-compliant product.

## 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)
- sequence of lathe operations to achieve job requirements
- tool type and geometry to achieve required specifications and for work pieces of different materials
- numerical operations, geometry and calculations/formulae for lathe operations
- consequences of varying speeds and feeds from the optimum rates calculated
- characteristics of different materials and their effects on cutting speeds and feeds
- application of lathe accessories
- techniques, tools and equipment to measure materials and machined components
- tools, techniques and equipment for checking components for conformance to specifications and rectifying non-compliant components.

## Assessment Conditions

- Assessors must:
  - have vocational competency in performing lathe operations 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>