



Australian Government

**Assessment Requirements for MEM07002
Perform precision shaping/planing/slotting
operations**

Release: 2

Assessment Requirements for MEM07002 Perform precision shaping/planing/slotting operations

Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM07002 Perform precision shaping/planing/slotting operations (Release 1).

Release 1. Supersedes and is equivalent to MEM07002B Perform precision shaping/planing/slotting 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 specifications and drawings for precision shaping, planing and slotting operations
- determining the appropriate tools, equipment and sequence of operations for a range of precision operations
- carrying out precision operations to meet specifications
- checking components for conformance to specifications and making required adjustments to cutting parameters
- 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)
- reasons for selecting a chosen sequence of operations
- procedures for setting up the work piece
- tool type and geometry to achieve the required specifications on different materials
- shaping techniques and procedures for machining the following:
 - flat surfaces
 - shoulders
 - slots
 - keyways
 - angles
 - dovetails
- planing techniques and procedures for machining the following:

- horizontal and vertical surfaces
- slotting techniques and procedures for machining the following:
 - feathered keyways
 - tapered keyways
 - slotting internal cavities
 - dovetails
 - slotting circular surfaces
 - slotting internal splines
- appropriate techniques, tools and equipment to measure machined components.

Assessment Conditions

- Assessors must:
 - have vocational competency in performing precision shaping, planing and slotting 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>