



Australian Government

MEM15004 Perform inspection

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Modification History

Release	Comments
2	Unit codes updated in Application to reflect status.
1	This unit of competency was first released in MEM Manufacturing and Engineering Release 2.0.

Application

This unit of competency defines the skills and knowledge required to inspect products, keep records and provide feedback on the conformance of product to specifications and applies to inspection of completed or partly completed products produced by others. It applies to a range of manufacturing enterprises and requires application of a range of measuring equipment/devices/ tools.

Where interpretation of technical drawings is required unit MEM09002 Interpret technical drawing should also be selected.

Where the selection and use of engineering measurement is required unit MEM12023 Perform engineering measurements should also be selected.

Where the selection and use of tools is required unit MEM18001 Use hand tools and unit MEM18002 Use power tools/hand held operations, as appropriate should also be selected.

This unit is not intended to be applied to maintenance personnel carrying out their day-to-day activities, for example, fault finding, remedial and checking activities. These skills are covered by other units such as unit MEM18006 Perform precision fitting of engineering components.

This unit should not be selected if any of the 24 series Non-destructive testing units have already been selected.

Band: A

Unit Weight: 2

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite unit(s)

MEM11011 Undertake manual handling

MEM13015 Work safely and effectively in manufacturing and engineering

MEM16006 Organise and communicate information

Competency field(s)

Quality

Unit sector(s)

N/A

Elements and Performance Criteria

Elements	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Determine job requirements	1.1 Follow standard operating procedures (SOPs) 1.2 Comply with work health and safety (WHS) requirements at all times 1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs 1.4 Identify job requirements from specifications, job sheets or work instructions
2. Inspect products	2.1 Test products for conformance to specifications in accordance with SOPs 2.2 Mark test status on conforming and non-conforming products and ensure records are accurately kept using SOPs
3. Provide feedback	3.1 Test/inspect/measure products after rework or repair 3.2 Report deficiencies or deviations according to SOPs

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on

the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.	
Inspection includes one (1) or more of the following:	• ‘first piece inspection’ • fixed interval • sample.
Tested for conformance to specifications includes one (1) or more of the following:	• visual inspection • physical measurements • chemical tests • checks for patterns • templates • guides.

Unit Mapping Information

Current Code and Title	Previous Code and Title	Comments	Equivalence
MEM15004 Perform inspection	MEM15004B Perform inspection	Supersedes and is equivalent to MEM15004B Perform inspection	Equivalent

Assessment Requirements for MEM15004 Perform inspection

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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 other applicable reference documents
- testing products for conformance to specifications using appropriate testing methods
- testing reworked/repaired products for conformance to specifications
- completing all reports/records in accordance with SOPs.

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)
- procedures as defined by job instructions to be used to check conformance to specifications
- data to be recorded and the frequency of recording required
- consequences of not keeping accurate records
- non-conformances of given products that can be removed by rework/repair in accordance with job instructions.

Assessment Conditions

- Assessors must:

- have vocational competency in performing inspection 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
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, 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.

Link

Companion volumes, including implementation guides, are found on the national training register - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=45a7f1d5-61a5-447a-9688-7abbd7e1a5c7>.