



Australian Government

MEM15005 Select and control inspection processes and procedures

Release: 1

MEM15005 Select and control inspection processes and procedures

Modification History

Release 1. Supersedes and is equivalent to MEM15005B Select and control inspection processes and procedures

Application

This unit of competency defines the skills and knowledge required to select inspection and test procedures to inspect products for conformance to specifications and control the inspection/test environment and equipment. It applies to a range of manufacturing enterprises where inspection involves working autonomously and taking responsibility for overseeing inspection process and environment.

This person would use a wide range of equipment/instruments and take responsibility for the reliability of inspection results to ensure conformance to specifications.

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.

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

Band: A

Unit Weight: 4

Pre-requisite Unit

MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM15004	Perform inspection
MEM16006	Organise and communicate information

Competency Field

Quality

Elements and 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	Select inspection/test procedures	2.1	Select appropriate methods of inspection and implement
		2.2	Monitor inspection/test procedures to ensure desired outcomes
3	Control inspection/test environment and equipment	3.1	Monitor environmental conditions to ensure reliability of tests and results
		3.2	Check equipment/instruments for correct calibration
		3.3	Initiate calibration of equipment/instruments, as required
		3.4	Check validity of previous results if equipment/instruments are found to be out of calibration, and report 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

No range of conditions provided for this unit.

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>

Assessment Requirements for MEM15005 Select and control inspection processes and procedures

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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
- implementing and monitoring inspection/test procedures to ensure desired outcomes are achieved
- checking calibration of measuring equipment/instruments and initiating calibration against the appropriate standard, as required
- detecting and reporting out-of-calibration equipment in accordance with procedures
- applying units of measurement and numerical operations and calculations in selecting and controlling inspection processes and procedures.

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)
- range of inspection methods and their application
- appropriate inspection method for the process/product and procedures for implementing inspection methods
- desired/target outcomes of the inspection/test procedures and reasons for any discrepancies/trends
- procedures for monitoring inspection/test procedures
- effects of environmental conditions on test equipment and the results and procedures for monitoring environmental conditions
- acceptable range of variations to environmental conditions
- specifications and correct operation of the measuring equipment
- procedures for checking the calibration of the measuring equipment
- appropriate techniques, tools and equipment to measure components
- units of measurement and numerical operations/calculations within the scope of this unit

- codes, standards, legislative or regulatory requirements applicable to the measuring equipment and/or calibration
- procedures for initiating the calibration of measuring equipment
- physical reference standard against which the measuring equipment is to be calibrated
- procedures for recording calibration details and reasons for keeping calibration records
- procedures to be followed when measuring equipment is found to be out-of-calibration and reasons for checking results from out-of-calibration measuring equipment
- procedures for reporting out-of-calibration measuring equipment.

Assessment Conditions

- Assessors must:
 - have vocational competency in selecting and controlling inspection processes and procedures 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.

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