



Australian Government

MEM08007 Control surface finish production and finished product quality

Release: 1

MEM08007 Control surface finish production and finished product quality

Modification History

Release 1. Supersedes and is equivalent to MEM08007B Control surface finish production and finished product quality

Application

This unit of competency defines the skills and knowledge required to apply the principles of quality assurance, research and quality information to the production process, and perform quality tests to industry standards where analyses are confined to the use of basic instruments.

Where the 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, should also be selected as appropriate.

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
MEM16006	Organise and communicate information

Competency Field

Surface finishing

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
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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	Apply principles of quality assurance	2.1	Apply quality assurance standards to enterprise specifications
		2.2	Perform quality testing to industry standards and SOPs, as required
3	Apply research or quality data to production process	3.1	Undertake liaison with in-house/external control laboratories
		3.2	Interpret data and recommend process changes
		3.3	Implement process changes in accordance with procedures
		3.4	Use laboratory/research data to determine and make changes/corrections to processes

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, accessibility of the item, and local industry and regional contexts) are included.

Basic instruments include one (1) or more of the following:

- pH meters
- hydrometers
- stalagmometers
- laboratory balances

Quality testing includes one (1) or more of the following:

- hardness
- adhesion
- deposit stress
- coating thickness
- corrosion resistance
- visual inspection

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 MEM08007 Control surface finish production and finished product quality

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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
- applying quality standards to production processes in order to meet enterprise/industry specifications
- safely handling surface finished products when undertaking quality testing and control
- undertaking testing of surface finishes in the production environment to industry standards
- liaising effectively with internal/external control laboratory
- analysing results and other data to implement effective process changes/corrections
- using appropriate tests, test equipment and techniques to test the surface coating for conformance with 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)
- enterprise and industry quality assurance standards that apply to surface finish production and product quality
- role of the control laboratory and procedures for liaising with internal/external control laboratories
- surface finish specifications
- characteristics of deviations of test/production data and their causes
- procedures, calculations and formulae for determining surface finish process parameters
- effect of varying process parameters on the specification of the surface finish
- surface coating tests and the procedures, equipment and techniques necessary to carry out those tests
- manual handling techniques.

Assessment Conditions

- Assessors must:

- have vocational competency in controlling surface finish production and finished product quality 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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