



Australian Government

MEM08016 Control blast coating by-products, materials and emissions

Release: 1

MEM08016 Control blast coating by-products, materials and emissions

Modification History

Release 1. Supersedes and is equivalent to MEM08016B Control blast coating by-products, materials and emissions

Application

This unit of competency defines the skills and knowledge required to identify, evaluate and control blaster coating by-products, materials and emissions, including using common containment practices and waste removal processes.

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: 1

Pre-requisite Unit

MEM11011	Undertake manual handling
MEM13003	Work safely with industrial chemicals and materials
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 specific health and safety considerations to surface preparation | 2.1 | Identify products, hazardous materials and processes used in blaster cleaning and coating operations |
| | | 2.2 | Identify unsafe working conditions and report to appropriate personnel |
| | | | |
| 3 | Control by-products, materials and emissions | 3.1 | Contain by-products, materials and emissions using established procedures |
| | | 3.2 | Monitor by-products, materials and emissions and direct to appropriate treatment or storage area |
| | | 3.3 | Check monitoring devices for correct/continuous operation |
| | | 3.4 | Record status and report in accordance with procedures |
| | | | |
| 4 | Dispose of by-product, materials and emissions | 4.1 | Apply waste treatment processes and in accordance with SOPs, as required |
| | | 4.2 | Carry out treatment processes to meet relevant authority waste requirements |

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.

Monitoring devices
include one (1) or more of the following:

- pH meters
- probes

Waste treatment processes
include one (1) or more of the following:

- neutralisation
- metals precipitation
- solid separation (gravity/centrifuging)

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 MEM08016 Control blast coating by-products, materials and emissions

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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
- safely and effectively control blaster cleaning by-products, materials and emissions
- monitoring blaster cleaning by-products, materials and emissions using suitable monitoring devices
- directing waste products to appropriate waste treatment area and processing and treating to meet relevant authority waste requirements.

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)
- products, hazardous materials and processes applying to blaster coating
- regulatory and legislative requirements relating to control of blast coating by-products, materials and emissions
- procedures for collecting samples and by-product collection equipment operation methods
- waste control monitoring equipment procedures and waste treatment processes
- requirements and procedures for recording and reporting processing status reports.

Assessment Conditions

- Assessors must:
 - have vocational competency in controlling blast coating by-products, materials and emissions 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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