



Australian Government

MEM13004 Work safely with molten metals/glass

Release: 1

MEM13004 Work safely with molten metals/glass

Modification History

Supersedes and is equivalent to MEM13004B Work safely with molten metals/glass

Application

This unit of competency defines the skills and knowledge required to work safely in a heavy engineering environment in which there are molten metals or glass, for example, in foundries, die casting operations, glass or molten glass operations and explosives manufacture.

Evidence of competency is to encompass the satisfactory application of any current state/territory work health and safety (WHS) legislation, standards and codes of practice, and the hierarchy of hazard control measures.

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

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

Band: A

Unit Weight: 2

Pre-requisite Unit

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

Competency Field

Work health and safety

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)

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element. requirements at all times	
		1.3	Identify job requirements from specifications, job sheets or work instructions
2	Use personal protective equipment (PPE)	2.1	Select correct and appropriate PPE and use correctly based on WHS information relating to specific hazards
3	Adhere to emergency procedures	3.1	Locate emergency equipment and use in accordance with workplace policies and SOPs
		3.2	Demonstrate responses to emergency procedures as detailed in approved safety procedures and instructions
4	Identify, assess and control hazardous conditions	4.1	Identify and report hazards and undertake planning to maintain a healthy and safe work environment
		4.2	Follow workplace procedures and work instructions for controlling risks
5	Observe safe working practices	5.1	Identify hazardous areas and materials associated with molten metals or glass and identify potential risks
		5.2	Identify and understand safety signs and symbols
		5.3	Inspect PPE and maintain in good order and store for reuse
		5.4	Identify, remove, assess and control hazardous items associated with task from hot material area, if required
		5.5	Perform housekeeping duties to maintain a safe working environment 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.

Hierarchy of control measures include the following:

The application of the hierarchy of control follows the six-step preference of control measures to manage and control risk:

1. elimination
2. substitution
3. isolation
4. engineering control measures
5. using safe work practices
6. personal protective equipment (PPE)

PPE includes one (1) or more of the following:

- face protection
- eye protection
- respiratory protection
- hearing protection
- hand protection
- clothing and footwear protection

Hazardous material includes one (1) or more of the following:

- hot material
- molten metals
- molten glass and associated products
- explosive materials

Unit Mapping Information

Supersedes and is equivalent to MEM13004B Work safely with molten metals/glass

Links

Companion Volume implementation guides are found in VETNet -

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