



Australian Government

MEM26010 Store and handle composite materials

Release: 1

MEM26010 Store and handle composite materials

Modification History

Release 1. Supersedes and is equivalent to MEM26010A Store and handle composite materials

Application

This unit of competency defines the skills and knowledge required to recognise hazards, shelf life, commercial and other issues controlling appropriate storage and handling of materials used to make composites.

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

Band: A

Unit Weight: 2

Pre-requisite Unit

MEM13015 Work safely and effectively in manufacturing and engineering

MEM16006 Organise and communicate information

Competency Field

Composites

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Identify properties and characteristics of materials used	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times
		1.3	Select and use appropriate personal protective equipment (PPE) in accordance with SOPs
		1.4	List all materials used on site

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.5 Interpret safety data sheet (SDS) for each material
	1.6 Identify relevant manual handling issues
	1.7 Identify and define environmental hazards for each material
	1.8 Categorise materials into groups based on their hazards and determine appropriate hazard controls
2 Identify key factors effecting storage and handling	2.1 Identify requirements for dangerous goods licence
	2.2 Identify environmental regulation requirements
	2.3 Identify usage patterns and frequencies
	2.4 Identify cost sensitivity to volume purchased
	2.5 Identify shelf life
3 Determine appropriate storage and handling protocols	3.1 Check manufacturer's storage and handling recommendations/requirements
	3.2 Check SDS and dangerous goods/Environment Protection Agency (EPA)/WHS requirements
	3.3 Check company usage requirements
	3.4 Resolve conflicts between different requirements
	3.5 Prepare storage and handling procedure for materials
4 Store and handle materials in accordance with protocols	4.1 Identify and control hazards
	4.2 Use required handling aids
	4.3 Move and store materials in accordance with procedures
	4.4 Monitor storage and handling of materials and identify areas for improvement and take appropriate action, as required

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 4.5 Complete any required documentation/reporting 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.

Materials include one (1) or more of the following:

- resins
- catalysts
- promoters
- solvents
- reinforcing
- cores
- fillers
- pigments
- mould release
- other materials used directly or indirectly in making products

Dangerous goods licence includes the following:

- the dangerous goods licence conditions can vary between states/territories and councils but will typically cover conditions related to:
 - fire
 - storage
 - the fee payable

Environmental regulations include the following:

- trade waste
- atmosphere
- other wastes
- other emissions

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.

Hazard controls include the following:

- elimination
- substitution
- isolation
- engineering controls
- administration controls

Storage hazards include the following:

- chemical hazards (e.g. fire)
- physical hazards (e.g. manual handling)
- cost hazards (e.g. economic purchasing quantity *versus* shelf life)
- efficiency hazards (e.g. having the material where you need it when you need it)

Areas for improvement include one (1) or more of the following:

- conflicting requirements
- inadequate storage facilities

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM26010A Store and handle composite materials

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>