



Australian Government

**MEM11003 Coordinate
erection/dismantling of complex
scaffolding/equipment**

Release: 1

MEM11003 Coordinate erection/dismantling of complex scaffolding/equipment

Modification History

Release 1. Supersedes and is equivalent to MEM11003B Coordinate erection/dismantling of complex scaffolding/equipment

Application

This unit of competency defines the skills and knowledge required to coordinate the erection, alteration, repair and dismantling of scaffolding/equipment in workshops, factories, manufacturing plants and warehouses, and applies to individuals coordinating a scaffolding team or employed in a supervisory capacity.

Complex scaffolding means intermediate scaffolding and above as set out the legislative requirements in each state and territory. The major difference between the complex and basic scaffolding is the height of the working platform and certain types of scaffolding and configurations.

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 power tools/hand held operations is required unit MEM18002 Use power tools/hand held operations should also be selected.

Depending on the equipment being used a high risk work licence may be required and users should check with the relevant authorities.

Band: A

Unit Weight: 4

Pre-requisite Unit

MEM11001	Erect/dismantle scaffolding and equipment
MEM11002	Erect/dismantle intermediate scaffolding and equipment
MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM18001	Use hand tools

Competency Field

Materials handling

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	Interpret site plans, scaffolding/equipment designs and drawings to industry practices, as necessary
2	Plan and coordinate erection of complex scaffold/equipment	2.1	Inspect work area to identify hazards and implement appropriate prevention/control measures to avoid hazard
		2.2	Prepare erection site to meet job and safety requirements
		2.3	Place necessary signage and barriers in appropriate position
		2.4	Coordinate scaffolding/equipment erection in accordance with acceptable safe work practices, Australian Standards, state or territory legislative requirements and equipment manufacturers' requirements
		2.5	Inspect completed scaffolding/equipment for safety and compliance with design, operational and statutory requirements
3	Coordinate alterations and repairs of complex scaffold/equipment	3.1	Confirm and understand scope of alteration/repair
		3.2	Inspect existing scaffolding/equipment and determine alterations/repairs
		3.3	Determine materials, equipment and tools required for

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	alterations
	3.4 Determine existing or new load requirements using load tables
	3.5 Coordinate alteration/repairs in accordance with safe work practices, Australian Standards and equipment manufacturers' requirements
	3.6 Inspect alterations/repairs for safety and operational requirements
	3.7 Report work completion to appropriate personnel and record
4 Inspect erected complex scaffold/equipment	4.1 Inspect the critical structural and safety areas of the scaffolding/equipment for damage, corrosion and wear
	4.2 Check scaffolding/equipment and structure against the type of scaffolding/equipment and structure specified in the plan
	4.3 Complete inspection log and report potential safety and design/structural hazards for rectification
5 Coordinate dismantling of complex scaffold/equipment	5.1 Coordinate removal of scaffolding/equipment from site in accordance with procedures and critical structural and safety requirements
	5.2 Coordinate site clearance and remove surplus material, equipment, tools and debris and leave site in safe and operational state
	5.3 Report work completion to appropriate authority

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.

Scaffolding/equipment includes one (1) or more of the following:

- modular or prefabricated scaffolds
- cantilevered materials hoists with a maximum working load of 500 kg
- ropes and gin wheels
- safety nets and static lines, and
- bracket scaffolds (tank and formwork)
- cantilevered crane loading platforms
- cantilevered and spurred scaffolds
- barrow ramps and sloping platforms
- perimeter safety screens and shutters
- mast climbers
- tube and coupler scaffolds (including tube and coupler covered ways and gantries)
- cantilevered hoists
- hung scaffolds, including scaffolds hanging from tubes, wire ropes or chains
- suspended scaffolds

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

- chemicals
- dangerous or hazardous substances/materials
- movement of equipment, goods and materials
- vehicular traffic
- uneven/unstable terrain
- overhead service lines
- trees
- underground services
- obstructions
- structures
- surrounding buildings
- facilities
- bridges/walkways
- lifting equipment

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Prescribed procedures include one (1) or more of the following:

- clarification of instructions either written or from authorised personnel
- site safety policy and procedures
- SOPs
- correct use of equipment
- industry standards and requirements
- manufacturers' specifications

Signage and barriers include one (1) or more of the following:

- physical barriers (para webbing, bollards, timber or metal barriers)
- warning/direction signs
- personnel to restrict unauthorised access (spotters)
- permit signage

Safe work practices include the following:

- hazard identification
- control measures
- risk assessment
- standard operating procedures
- housekeeping
- PPE

State or territory legislative requirements include the following:

- appropriate WHS and Scaffolding Acts and regulations
- Australian standards and codes of practice, including:
 - NOHSC:1006, National Occupational Health and Safety Certification Standards for Users and Operators of Industrial Equipment

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM11003B Coordinate erection/dismantling of complex scaffolding/equipment

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 MEM11003 Coordinate erection/dismantling of complex scaffolding/equipment

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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 charts, lists, specifications and legislative requirements for erecting complex scaffolding
- determining existing or new load requirements using load tables
- coordinating the following:
 - preparation of the site
 - basic levelling and alignment of scaffolding
- assess the risks associated with erecting/dismantling complex scaffolding and equipment and determine the most appropriate technique
- appropriate use of relevant hand tools and manual handling techniques
- determining personnel and equipment requirements, including working safely and confidently at heights
- time management
- clean-up and site remediation
- inspecting completed scaffolding with reference to structural integrity and design faults
- completing inspection log in accordance with procedures and legislative 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)
- erection and dismantling procedures as set out in the Australian Standards
- codes of practice, for example, the Scaffolder's Guide
- site-specific requirements
- types of scaffolding systems and deck loadings
- using load tables to determine existing or new load requirements
- sequence of operations in erecting and dismantling the scaffolding
- design and materials faults, including rust, wear and tear and stress

- scaffolding techniques and equipment and its limitations
- materials handling, storage and environmentally friendly waste management
- hazards; electrical, stability, mobile plant issues/requirements; falls protection measures; minimum gap requirements; and safe access and egress.

Assessment Conditions

- Assessors must:
 - have vocational competency in coordinating erection/dismantling of complex scaffolding/equipment 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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