



Australian Government

MEM25015 Assemble and install equipment and accessories/ancillaries

Release: 1

MEM25015 Assemble and install equipment and accessories/ancillaries

Modification History

Release 1. Supersedes and is equivalent to MEM25015A Assemble and install equipment and accessories/ancillaries

Application

This unit of competency defines the skills and knowledge required to assemble and install equipment and ancillaries/accessories.

Work is undertaken using new external and internal locations and sites and foundations, footings, beds and framework are completed prior to installation practices.

It does not cover installation requiring substantial modification to the existing site or where components are replaced by the same or similar type.

Where production-related assembly work is undertaken unit MEM03002 Perform precision assembly should also be selected.

Where installation requires substantial modification to the existing site, and is being replaced by the same or similar type unit MEM10006 Install machine/plant should also be selected.

Where load shifting equipment is required to be used unit MEM11010 Operate mobile load shifting equipment should also be selected.

Where positions are determined, alignments are undertaken and testing within manufacturer specifications is required unit MEM25012 Install and test operations of marine auxiliary systems should also be selected.

This unit should not be selected if unit MEM03002 Perform precision assembly has already been selected.

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

Band: A

Unit Weight: 2

Pre-requisite Unit

MEM09002	Interpret technical drawing
MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information

MEM18001	Use hand tools
MEM18002	Use power tools/hand held operations

Competency Field

Marine craft construction

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 Identify job requirements from specifications, drawings, job sheets or work instructions
2 Inspect and prepare the installation site	2.1 Check site for location, dimension and levels using appropriate measuring equipment 2.2 Report non-compliance with specification to appropriate authority 2.3 Undertake alteration and correction with approval of appropriate authority 2.4 Prepare all surfaces, materials and components for use
3 Install machinery/ plant and equipment	3.1 Carry out work in accordance with site procedures and legislative requirements 3.2 Prepare machine/equipment components for correct sequential installation 3.3 Install machinery/plant or equipment in accordance with

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manufacturer and site specifications

- 3.4 Undertake routine modification/alterations to operating procedures, where required
- 3.5 Level, align, connect machine/equipment or couple, where required (excluding electrical connections)
- 3.6 Clean site and clear all debris and leave in safe state

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.

Machine/equipment components include one (1) or more of the following:

- toe rails
- cleats
- bollards
- bow-rollers
- fairleads
- stanchions
- railings
- non-powered and powered winches
- engines and driving mechanisms
- auxiliary power plants
- desalinating units
- stabiliser units
- powered/non-powered davits
- pumps
- compressors

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM25015A Assemble and install equipment and accessories/ancillaries

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 MEM25015 Assemble and install equipment and accessories/ancillaries

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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 specifications, plans, drawings, charts, lists and other applicable reference documents to assemble and install equipment and accessories/ancillaries
- checking site and taking dimensions and measurements and performing alterations and corrections with approval of appropriate authority
- preparing surfaces, materials and components for use and checking components against specifications for compliance
- preparing machine/equipment components for correct sequential installation
- undertaking numerical operations and calculations associated with assembling and installing equipment and accessories/ancillaries
- installing machine/plant or equipment and performing modifications/alterations as required in accordance with manufacturer and site specifications
- levelling, aligning, connecting and coupling machine/equipment to specifications and packing/sealing through-hull fittings, as required.

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)
- appropriate levelling and measuring equipment and benefits of choice
- procedural standards, legislative requirements and non-compliance, and the impact of such
- preparatory requirements and processes
- sequence of installation of parts and installation procedures
- reasons for modifications/alterations and impact of modifications/alterations
- procedures for levelling and aligning and impacts of misalignment
- cleaning procedures.

Assessment Conditions

- Assessors must:
 - have vocational competency in assembling and installing equipment and accessories/ancillaries 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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