



Australian Government

Department of Education, Employment and Workplace Relations

MEM25015A Assemble and install equipment and accessories/ancillaries

Release: 1

MEM25015A Assemble and install equipment and accessories/ancillaries

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers assembling and installing equipment and ancillaries/accessories.
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Application of the Unit

Application of the unit	<p>This unit applies to installation to predetermined positions/locations using drawings, instructions etc. It does not cover installation requiring substantial modification to the existing site or where components are replaced by the same or similar type. Typical applications may include marine vessel manufacture.</p> <p>Work is undertaken using new external and internal locations and sites. Foundations, footings, beds and framework are completed prior to installation practices. All specifications are applied via engineering drawings, written or verbal instructions.</p> <p>Where positions are determined, alignments are undertaken, testing within manufacturer specifications is required, Unit MEM25012B (Install and test operations of marine auxiliary systems) should be selected.</p> <p>Where installation requires substantial modification to the existing site, and is being replaced by the same or similar type, Unit MEM10006B (Install machine/plant), Unit MEM18006C (Repair and fit engineering components) should also be selected.</p> <p>Unit MEM18009B (Perform levelling and alignment of machines and engineering components) and Unit MEM18055B (Dismantle, replace and assemble engineering components) should be accessed.</p> <p>For production-related assembly work, Unit MEM03002B (Undertake precision assembly) should be selected. This unit should not be selected if Unit MEM03002B (Undertake precision assembly) has already been selected.</p> <p>Where load shifting equipment, such as ride on forklifts/pallet trucks, is used, Unit MEM11010B (Operate mobile load shifting equipment) should also be considered.</p> <p>Band: A</p>
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	Unit Weight: 2
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		
Path 1	MEM09002B	Interpret technical drawing
	MEM18001C	Use hand tools
	MEM18002B	Use power tools/hand held operations

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Inspect and prepare the installation site	1.1. Site is checked for location, dimension, levels, etc. using appropriate measuring equipment. 1.2. Non-compliance with specification is reported to appropriate authority. 1.3. Alteration and correction is undertaken with approval of appropriate authority. 1.4. All surfaces, materials and components are prepared for use.
2. Install machinery/plant and equipment	2.1. Work is carried out safely and in accordance with site procedures, standard operating procedures and legislative requirements. 2.2. Machine/equipment components are prepared for correct sequential installation. 2.3. Machinery/plant or equipment is installed in accordance with manufacturer and site specifications. 2.4. Routine modification/alterations are undertaken to operating procedures, where required. 2.5. Machine/equipment is levelled, aligned, connected or coupled where required (excluding electrical connections). 2.6. Site is cleaned and cleared of all debris and left in safe state.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

Look for evidence that confirms skills in:

- reading, interpreting and following information on written job instructions, specifications, standard operating procedures, charts, lists, drawings and other applicable reference documents
- planning and sequencing operations
- checking and clarifying task-related information
- checking site and taking dimensions and measurements

REQUIRED SKILLS AND KNOWLEDGE

- reporting non-compliance
- performing alterations or corrections
- preparing surfaces, materials and components for use
- checking component parts against specification
- working safely and in accordance with manufacturer, site and legislative requirements
- preparing machinery/plant or equipment to specifications and established procedures
- installing machinery/plant or equipment
- performing modifications/alterations
- undertake numerical operations within the scope of unit
- levelling, aligning, connecting and coupling machine/equipment to specifications
- packing/sealing through-hull fittings
- cleaning site

Required knowledge

Look for evidence that confirms knowledge of:

- appropriate levelling and measuring equipment and benefits of choice
- procedural standards
- non-compliance and the impact of such
- preparatory requirements and processes
- legislative requirements
- sequence of installation of parts
- installation procedures
- reasons for modifications/alterations and impact of modifications/alterations
- procedures for levelling and aligning
- impacts of misalignment
- cleaning procedures
- hazards and control measures associated with assembling and installing equipment and accessories/ancillaries, including housekeeping
- use and application of personal protective equipment
- safe work practices and procedures

Evidence Guide

EVIDENCE GUIDE	
<p>The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.</p>	
<p>Overview of assessment</p>	<p>A person who demonstrates competency in this unit must be able to assemble and install equipment and accessories/ancillaries. Competency in this unit cannot be claimed until all prerequisites have been satisfied.</p>
<p>Critical aspects for assessment and evidence required to demonstrate competency in this unit</p>	<p>Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts.</p>
<p>Context of and specific resources for assessment</p>	<p>This unit may be assessed on the job, off the job or a combination of both on and off the job. Where assessment occurs off the job, that is the candidate is not in productive work, then an appropriate simulation must be used where the range of conditions reflects realistic workplace situations. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.</p> <p>This unit could be assessed in conjunction with any other units addressing the safety, quality, communication, materials handling, recording and reporting associated with assembling and installing equipment and accessories/ancillaries, or other units requiring the exercise of the skills and knowledge covered by this unit.</p>
<p>Method of assessment</p>	<p>Assessors should gather a range of evidence that is valid, sufficient, current and authentic. Evidence can be gathered through a variety of ways including direct observation, supervisor's reports, project work, samples and questioning. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials.</p>

EVIDENCE GUIDE

Guidance information for assessment	
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Range Statement**RANGE STATEMENT**

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Machine/equipment components

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 and compressors etc.

Unit Sector(s)

Unit sector	
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Co-requisite units

Co-requisite units	

Competency field

Competency field	Marine craft construction
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