



Australian Government

**Assessment Requirements for MEM25012
Install and test operations of marine
auxiliary systems**

Release: 1

Assessment Requirements for MEM25012 Install and test operations of marine auxiliary systems

Modification History

Release 1. Supersedes and is equivalent to MEM25012B Install and test operations of marine auxiliary systems

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 and supporting documentation to install and test operations of marine auxiliary systems
- identifying materials for installation from plans/drawings and establish compatibility of component material and structural surface
- selecting and installing auxiliary systems using appropriate tools, equipment and procedures
- selecting and applying sealants and coatings/isolation materials, including sikaflex, paints, flowcoat and nylon to suit job requirements
- modifying structural components without compromising structural and watertight integrity and assembling and installing systems utilising appropriate fastening methods in accordance with plans and specifications
- testing system using appropriate testing equipment to verify correct system operation
- recording/reporting and rectifying all faults and re-testing to ensure correct operation.

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)
- role of plans/specification used for installation of identified components
- species/types of materials and their uses
- compatibility of species/types of construction materials of component and surface
- material species/types of structure/system and installation process
- plans/instruction relevant to installation and assembly of selected system
- tools associated with system installation and their uses
- effects of sea-going stresses on structure and components
- practices used in modifying structural components to suit system applications
- procedures for applying the reinforcement to structural section

- method of sanding for surface preparation
- sealant coatings and/or isolation materials
- waste disposal obligations and regulations
- standard pre-testing checks and role, function and set-up procedure of test equipment
- practice used in testing operation of installed system
- recording procedures for fault diagnosis and identification
- methods used for rectifying faults and re-testing of system operations
- test operation checklist and recording procedure for final test clearance.

Assessment Conditions

- Assessors must:
 - have vocational competency in installing and testing operations of marine auxiliary systems 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.

Links

Companion Volume implementation guides are found in VETNet -

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