



Australian Government

MARM006 Assist in the survey of commercial vessels

Release: 1

MARM006 Assist in the survey of commercial vessels

Modification History

Not applicable.

Application

This unit involves the skills and knowledge required to assist an accredited surveyor in the survey of commercial vessels. It covers the requirements necessary to effectively plan, monitor and implement a marine survey for a range of commercial vessels. The unit includes evaluating survey and reporting outcomes.

This unit applies to people working in the maritime industry as a marine surveyor assistant.

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

Pre-requisite Unit

Not applicable.

Competency Field

M – Marine Surveying

Unit Sector

Not applicable.

Elements and Performance Criteria

Elements describe the essential outcomes.

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

1 Plan a marine survey for a commercial vessel

- 1.1 Applicable work health and safety/occupational health and safety (WHS/OHS), environmental, legislative and organisational requirements are identified and implemented
- 1.2 Environmental awareness issues are considered according to relevant legislation, regulations and site specific requirements
- 1.3 Survey purpose, scope and procedures are identified and checked with appropriate personnel as required
- 1.4 Relevant information and documentation is obtained, interpreted and verified with surveyor for impact on current

- survey
- 1.5 Survey tools, equipment and personnel requirements are coordinated, scheduled and confirmed with surveyor
 - 1.6 Permit or licence requirements are identified and organised according to organisational requirements
 - 1.7 Survey is planned, scheduled and communicated to relevant personnel
- 2 Observe and assist with conducting and monitoring survey**
- 2.1 Survey plan is verified with surveyor
 - 2.2 Consultation with relevant personnel is carried out during survey activity as required
 - 2.3 Survey procedures are monitored to ensure required survey outcome is achieved
 - 2.4 Survey plan is modified as required in response to equipment, personnel, site condition changes and environmental requirements, and is verified with surveyor
 - 2.5 Regular communication with relevant personnel is maintained to ensure continuous workflow and progress
- 3 Finalise survey**
- 3.1 Relevant personnel are informed of results according to organisational requirements
 - 3.2 Required documentation is completed according to survey plan and is verified by surveyor
 - 3.3 Survey report is prepared in an appropriate format, processed according to organisational requirements and checked for accuracy by surveyor
 - 3.4 Survey results are communicated in an appropriate manner to owner/agent of vessel
 - 3.5 Survey data is archived according to organisational requirements
 - 3.6 Survey outcomes are recorded and reported according to site procedures and organisational requirements
- 4 Review survey**
- 4.1 Survey documentation and data are compiled and organised for review, and checked as accurate by surveyor
 - 4.2 Evaluation of survey plan and processes is undertaken and documented for use in reviewing and revising future surveys

- 4.3 Improvements or recommended actions arising from survey plan evaluation are signed off by surveyor, and recorded and reported according to organisational requirements

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

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| WHS/OHS requirements must include: | <ul style="list-style-type: none"> • atmospheric monitoring • elimination of hazardous materials and substances • fatigue management • first aid equipment • hazard and risk control • manual handling including shifting, lifting and carrying • personal protective equipment and clothing • safety data sheets/material safety data sheets (SDSs/MSDSs) • safety equipment • site specific and/or organisational requirements |
| Environmental requirements must include: | <ul style="list-style-type: none"> • legislation • organisational policies and procedures • site specific and/or organisational requirements • workplace practices |
| Legislative requirements must include: | <ul style="list-style-type: none"> • applicable sections of Marine Safety (Domestic Commercial Vessel) National Law • National Standard for Commercial Vessels (NSCV) • State/Territory legislation, guidelines and handbooks applicable to safe construction, modification and operation of commercial vessels • USL Code • WHS/OHS Act |
| Organisational | <ul style="list-style-type: none"> • anti-discrimination |

requirements must include:	• award and enterprise agreements • code of conduct • confidentiality and privacy • environment • equal opportunity • industrial relations • professional indemnity and public liability • record management systems and archiving • relevant industry codes of practice • WHS/OHS
Commercial vessels must include:	• Vessels defined in Marine Safety (Domestic Commercial Vessel) National Law
Environmental awareness issues must include:	• asbestos • bilge • blasting • coatings • fluids identified and otherwise • exhaust • garbage • noise • SDSs/MSDSs • sewages
Survey purpose must include:	• initial and periodic surveys of domestic commercial vessels
Survey scope must include:	• National Standards for Administration of Marine Safety
Survey procedures must include:	• emergency • evacuation • handling • observation • organisational guidelines and code of conduct • safety
Relevant information and documentation include one or more of the following:	• case files/incident reports • certificates of survey, operation • checklists • deck and engine logs

	• details of survey location • forms (such as application forms, notification forms) • insurance certificates • licence or permit requirements • notices (such as seizure notice, infringement notice) • operating manuals and owner instructions • plans and charts • previous surveys • safety management system • ship log books and other recordkeeping instruments • vessel Stability Book
Survey tools and equipment include one or more of the following:	• barcol hardness tester • boroscope • communication equipment: • internet connection • mobile phone • drill, hammer/welder's hammer, screwdriver, small mallet • entry authority • hydrometer • ICT equipment • labels • light meters • mirror • moisture meter • noise meter • personal protective equipment (such as respirators, gloves, overalls, boots, hearing protection, goggles, masks) • photographs • pocket calculator • recording equipment: • camera • dictaphone • notebook • scraper • silver chloride reference cell • sounding tapes • tape measure/measuring wheel • thermography • thermometers • ultrasonics
Relevant personnel must	• crew

- include:
- manager of private survey company
 - owners or owner representatives of vessels and/or charters
 - port authorities
 - representatives of:
 - classification societies
 - government
 - law firm
 - protection and indemnity clubs
 - stevedores
 - work colleagues
 - yard personnel
- Required documentation must include:
- consideration of:
 - checklists
 - diaries
 - legislative requirements
 - logs
 - organisational requirements
 - survey purpose
 - technical evaluations
 - type of vessel to be surveyed
- Survey report includes one or more of the following:
- advice given
 - costs
 - data analysis
 - difficulties or issues faced
 - documents copied
 - measurements recorded
 - photographs
 - recommendations for future work results
 - test results

Unit Mapping Information

This unit replaces and is equivalent to MARM4002A Assist in the survey of commercial

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>

Assessment Requirements for MARM006 Assist in the survey of commercial vessels

Modification History

Not applicable.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to, and satisfy all of the requirements of the elements and performance criteria.

Assisting in the implementation of a survey plan for a commercial vessel should be undertaken in at least three different survey purpose contexts and include:

- accurately interpreting numerical data required as part of survey processes
- applying relevant work health and safety/occupational health and safety (WHS/OHS) requirements and work practices
- communicating effectively and following safe work practices while assisting with a marine survey
- coordinating and scheduling tools, equipment and personnel requirements appropriate to survey procedures
- developing effective planning documents
- documenting suitable checking and survey procedures
- eliciting information from a variety of sources
- ensuring high level of detail in recordkeeping
- estimating, measuring and calculating time required to complete tasks
- identifying problems and arranging appropriate corrective action
- interpreting and accurately applying information from legislation, regulations and codes of practice
- interpreting, applying and conveying information verbally, in writing and diagrammatically
- maintaining documentation
- observing situations and analysing information
- performing accurate and reliable calculations
- preparing interview documentation using accurate expression and appropriate level of formality in structure and format
- reading and interpreting:
 - plans accurately
 - survey documentation and data
- recording and reporting workplace information
- using and maintaining relevant tools, equipment and materials
- using appropriate communication and interpersonal techniques with colleagues and people external to the organisation
- using computers for word processing and manipulation of statistical data

- using critical analysis, evaluation and deductive reasoning
- working safely and continually reviewing changing work environment
- writing high quality reports using appropriate formats.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- applicable commonwealth, state/territory legislation, regulations, codes of practice, standards, and established safe practices relevant to conducting a survey for commercial vessels
- appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- environmental protection requirements, including safe disposal of waste and compliance with marine environment protection legislation
- established communication channels and protocols
- legal and organisational requirements for documentation
- organisational policy, procedures, guidelines and protocols
- own and others' areas of responsibility
- permit, licensing and certification requirements required by maritime industry authorities
- procedures for recording and reporting information
- purposes of surveys including statutory, trade, insurance, sale and purchase
- research and sampling techniques
- responding to diversity
- responses to non-compliance
- risk management
- security storage of evidence/information
- scope, depth and frequency of marine surveys
- survey procedures
- types of tools and equipment, and procedures for their safe use and maintenance
- WHS/OHS legislation, policies and procedures.

Assessment Conditions

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

Assessment must satisfy the National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) standards.

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.

Assessment must occur in workplace operational situations or where these are not available, in simulated workplace operational situations or an industry-approved marine operations site that replicates workplace conditions where assisting in the survey of commercial vessels can be conducted.

Resources for assessment include access to:

- relevant documentation including workplace procedures, regulations, codes of practice and operation manuals
- tools, equipment, materials and personal protective equipment currently used in industry to survey a commercial vessel.

Performance should be demonstrated consistently over time and in a suitable range of contexts.

Links

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<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>