



Australian Government

MARM018 Undertake a periodic statutory survey

Release: 1

MARM018 Undertake a periodic statutory survey

Modification History

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to undertake statutory periodic surveys of vessels.

This unit applies to people working in the maritime industry as a domestic commercial vessel marine surveyor and may form part of accreditation requirements for surveyors under Australian legislation.

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.

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| 1 Identify survey scope | 1.1 | Vessel survey regime is identified and relevant regulatory requirements, organisational requirements and procedures for survey scope are accessed and reviewed |
| | 1.2 | Vessel survey regime is confirmed against relevant regulatory requirements |
| | 1.3 | Survey scope and depth is confirmed against relevant regulatory and organisational requirements |
| | 1.4 | Survey purpose objectives and variations are clarified with relevant personnel |

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| | 1.5 | Relevant regulatory and organisational requirements are reflected in survey plan |
| 2 Plan and prepare for survey | 2.1 | Clients/representatives are informed of survey schedule according to relevant regulatory and organisational requirements |
| | 2.2 | Survey time is estimated and location confirmed with relevant personnel |
| | 2.3 | Vessel history and supporting documents are located and reviewed in preparation for survey |
| | 2.4 | Operational limits, certificate of operations and previous certificates of survey are reviewed for special conditions or equivalent solutions and included in survey plan where required |
| | 2.5 | Relevant standards for vessel equipment are identified, accessed and included in survey plan as required |
| | 2.6 | Survey tools and equipment requirements for survey and range of variations are accurately identified, selected and tested for serviceability |
| | 2.7 | Likelihood of confrontation or risks to self are identified and managed according to organisational procedures |
| | 2.8 | Risks related to scope of survey are identified and managed according to organisational procedures |
| 3 Conduct survey | 3.1 | Legal requirements for conducting periodic surveys are reviewed and applied |
| | 3.2 | Purpose and scope of survey is confirmed with clients/representatives |
| | 3.3 | Continued existence, quantity and/or type of components, systems or equipment on board vessel is verified, examined and/or tested according to survey schedule |
| | 3.4 | Degradation or loss of functionality in components, systems or equipment is noted for repair, deficiency or renewal in survey report |
| | 3.5 | Vessel construction, machinery or equipment not under survey but noted as unsafe are reported according to relevant regulatory, legislative and organisational requirements |

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| | 3.6 | Survey findings are documented in vessel history log in a systematic order and according to survey schedule and organisational requirements |
| | 3.7 | Survey results are confirmed with clients/representatives, and improvements and actions required to issue certificate of survey for vessel are noted and issued to clients/representatives |
| 4 Finalise survey | 4.1 | Survey outcomes are logged or reported to relevant personnel according to organisational requirements |
| | 4.2 | Improvement actions required are reviewed for compliance before certificate of survey is issued |
| | 4.3 | Results of final compliance requirements are forwarded to relevant personnel for certification |

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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| Survey regime includes one of the following: | <ul style="list-style-type: none"> • class of vessel • survey level of vessel |
| Relevant regulatory requirements include one or more of the following: | <ul style="list-style-type: none"> • Australian/New Zealand Standards (AS/NZS), in particular: <ul style="list-style-type: none"> • AS/NZS 3000: 2007 Electrical installations • AS/NZS 3017: 2007 Electrical installations – verification guidelines • AS/NZS ISO 9001: 2008 Quality Management Systems – requirements • National Standard for the Administration of Marine Safety (NSAMS) Section 4 • NSCV: <ul style="list-style-type: none"> • Part B – General Requirements • Part E – Operational Practices |

Variations include one or more of the following:	• combined Uniform Shipping Laws (USL) Code and NSCV • equivalent solutions • NSCV • pre USL Code • USL Code
Relevant personnel include one or more of the following:	• classification societies • colleagues • government bodies • owners or owner representatives of vessels and/or charters • port authorities
Clients/representatives include one or more of the following:	• classification societies • environmental agencies/authorities • government bodies • lawyers • owners of vessels and/or charterers • port authorities
Survey schedule includes one or more of the following:	• twelve months • twenty-four months • thirty-months • five year cycle with NSAMS: • periodic survey (either annual or bi-annual) • change of class survey • safety equipment only survey • damage/repair or condition surveys • equivalent solution or deemed-to-satisfy surveys • safety management system (SMS) components • in water • out of water
Vessel history and supporting documents include one or more of the following:	• case files/incident reports • commercial documentation • current survey practice, both formal and informal • current vessel designs, practices and materials • deck and engine logs • forms (such as application forms, notification forms) • insurance certificates • notices (such as seizure notice, infringement notice) • previous surveys and certificates of survey • relevant national and international standards • ship log books and other recordkeeping instruments • vessel Stability Book

Operational limits include one or more of the following:	• certificate of operations • certificate of survey • restrictions and endorsements • SMS
Survey tools and equipment include one or more of the following:	• communication equipment • draft survey hydrometer • drill • entry authority • hammer/welder's hammer • mallet • mirror • personal protective equipment such as respirators, gloves, overalls, boots, hearing protection, goggles, masks • photographs • plastic sampling bags • pocket calculator • recording equipment: • camera • dictaphone • laptop computer • notebook • sampling equipment: • silver nitrate test kit for chlorides • test kit equipment • thermometers • water-detecting paste • satellite imagery • scraper • screwdriver • sounding tapes • storage equipment/facilities • tape measure/measuring wheel
Risks include one or more of the following:	• age of vessel • area of operation, nature of operation • incident history of particular class of vessels • operational and maintenance performance of operator • personal attributes of operator/client • physical attributes of vessel
Legal requirements	• common law

- include one or more of the following:
- conflict of interest
 - consequences and penalties for noncompliance
 - duty of care
 - ethical behaviour
 - requirements under Marine Safety (Domestic Commercial Vessel) National Law

Unit Mapping Information

This unit replaces and is equivalent to MARM5008A Undertake a periodic statutory survey.

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 MARM018 Undertake a periodic statutory survey

Modification History

Release 1. New unit of competency.

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.

A periodic survey for at least three different vessels under different conditions should be conducted and include:

- accurately interpreting standards and guidelines, and applying rules and/or regulatory requirements to survey tasks
- applying relevant work health and safety/occupational health and safety (WHS/OHS) requirements and work practices
- carrying out survey tasks in a logical sequence according to organisational operating procedures
- communicating effectively with others as required
- developing effective planning documents
- conducting vessel history searches
- following instructions, regulations, marine orders, organisational operating procedures
- identifying defects, faults and corrosion to operational systems, hull and superstructure, safety and fire equipment
- operating technical and electronic equipment
- providing high quality written and verbal reports
- selecting and using suitable equipment including personal protection equipment
- using a range of communication techniques including:
 - establishing rapport
 - listening
 - negotiating
 - probing
 - reflecting
 - resolving conflict
- using appropriate communication and interpersonal techniques with a diverse range of clients/representatives and staff
- using business technology and common software programs.

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 Australian/New Zealand Standards (AS/NZS), in particular:
 - AS/NZS 3000: 2007 Electrical installations
 - AS/NZS 3017: 2007 Electrical installations – verification guidelines
 - AS/NZS ISO 9001: 2008 Quality Management Systems – requirements
- certificates of operation and how they apply to the survey task, in particular:
 - assessment of seafarer eligibility
 - certificate of survey requirements
 - restrictions and endorsements
 - safety management system (SMS) requirements
- international conventions and acts such as International Convention for the Prevention of Pollution from Ships (MARPOL), safety of life at sea (SOLAS)
- international conventions for load lines
- legal requirements relating to recording information
- Marine Safety (Domestic Commercial Vessel) National Law
- national and international regulations, International Maritime Organization (IMO) Conventions and Codes, including Australian Maritime Safety Authority (AMSA) Marine Orders
- National Standard for Commercial Vessels (NSCV) relating to conducting periodic surveys and in particular:
 - Part B – General Requirements
 - Part E – Operational Practices
- National Standard for the Administration of Marine Safety (NSAMS)
- risk management principles and techniques
- role of surveyor in carrying out periodic statutory surveys
- state/territory and local government legislation and regulations relating to:
 - environmental protection
 - maritime regulations
- 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 a periodic statutory survey can be conducted.

Resources for assessment include access to:

- relevant documentation including workplace procedures, regulations, codes of practice and operation manuals
- tools, equipment, material and personal protective equipment currently used in industry and required when undertaking a periodic statutory survey.

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

Links

Companion Volume implementation guides are found in VETNet -

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