Australian Government

Department of Education, Employment and Workplace Relations

AURR346543A Moor a motor driven vessel

Release: 1

AURR346543A Moor a motor driven vessel

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit of competency describes the skills and knowledge required to moor and dock a motor driven vessel to or from a dockside or swing mooring. It requires the ability to operate equipment to moor and dock a vessel and the ability to understand the safety requirements. Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions (e.g. boat licence requirements for each state and territory). Users are advised to check with the relevant regulatory authority. This unit replaces AURR346542A Moor vessel.

Application of the Unit

Application of the unit	This unit applies to marine mechanics who undertake the launching and mooring of a vessel for water testing so as to confirm vessel repairs have been successfully undertaken. This would occur at a fixed dock or a swing mooring in a marine environment.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.

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. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare vessel	1.1. Read and interpret job requirements and specifications 1.2. Locate occupational health and safety (OHS) requirements, including personal protection needs 1.3. Collect appropriate tools and equipment and check for their safe and effective operation 1.4. Outline procedures to minimise task time 1.5. Check weather, tidal conditions and launch site for safe launching conditions
2. Conduct safety inspection prior to moving off	2.1. Audit vessel safety equipment 2.2. Inspect hull and vessel systems and components for seaworthiness and conformity to manufacturer and component supplier specification and regulations to ensure vessel safety 2.3. Check vessel for safety using testing equipment, as appropriate 2.4. Start and check engines, controls, autopilot and failsafe systems 2.5. Repair systems and components that fail the safety inspection in accordance with manufacturer, industry and component supplier specifications, and site procedures
3. Move off mooring	3.1. Remove and attach appropriate lines using suitable knots, taking into account weather conditions, currents, tides, tidal flows and safety 3.2. Manoeuvre vehicle avoiding damage to vessel and environment 3.3. Move vessel off dockside
4. Dock and moor vessel	4.1. Select mooring site and attachment equipment as appropriate for vessel and mooring site 4.2. Locate suitable attachment points on the mooring dock and vessel 4.3. Manoeuvre vessel avoiding damage to vessel and environment 4.4. Link vessel to the mooring and secure attachment equipment in accordance with Maritime Regulations 4.5. Secure vessel alongside using appropriate docklines and knots and in accordance with regulatory requirements

ELEMENT	PERFORMANCE CRITERIA
	4.6. Use buffering equipment, as required 4.7. Moor vessel according to OHS and environmental legislation, manufacturer specifications, industry regulations and enterprise policies and procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

Required skills include:

- technical skills to the level required to launch and recover a vessel from a dockside, use safety inspection tools and computerised equipment and tie appropriate knots
- communication skills to the level required to communicate effectively regarding work requirements, to relate to people from a range of social, cultural and ethnic backgrounds and of varying physical and mental abilities, and to read and understand vessel specifications and operation
- literacy skills to the level required to locate and understand information related to work orders and OHS and organisational policies and procedures related to launching and recovering a vessel from a dockside
- numeracy skills to the level required to read weather charts and to complete tests and measurements to determine vessel seaworthiness
- problem-solving skills to the level required to identify technical and procedural problems related to launching and recovering a vessel from a dockside
- team skills to the level required to work effectively and cooperatively with others to optimise workflow and productivity
- planning skills to the level required to use pre-checking and seaworthiness inspection techniques to anticipate problems, and avoid wastage of time and materials

Required knowledge

Required knowledge includes:

- knot types for a variety of situations including dock, fixed pier, jetty, public or private wharf, concrete pontoon and plastic pontoon
- swing mooring types and construction methods as required by regulating authority and vessel size
- inspection requirements and standards for safety equipment, hull and fittings

REQUIRED SKILLS AND KNOWLEDGE
• daily maintenance requirements for vessels and mooring docklines • manufacturer and component supplier specifications, including workshop manuals • inspection procedures related to moving away or off a swing mooring or dockside • equipment requirements and standards • applicable commonwealth, state or territory legislation, regulations, standards and codes of practice, including OHS, personal safety and environment, relevant to marine dockside launching and mooring • organisational policies and procedures, including quality requirements, reporting and recording procedures, and work organisation and planning processes, related to marine operations

Evidence Guide

EVIDENCE GUIDE	
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.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Assessors must be satisfied that the candidate can competently and consistently: • observe safety procedures and requirements • communicate effectively with others involved in or affected by the work • select methods and techniques which are appropriate to the circumstances • complete preparation of launch in a systematic manner • inspect a vessel for seaworthiness • follow legislative, state and territory regulations and organisational requirements • safely and responsibly move a vessel to a position alongside a dockside • safely and responsibly move a vessel off/away from a dockside • safely and responsibly move a vessel toward a swing mooring, retrieving and securing the mooring buoy and securely attaching the mooring chain in accordance with Maritime Regulations • safely and responsibly move a vessel away from a swing mooring and inspect and release the mooring buoy and chain in accordance with Maritime Regulations • safely moor a vessel to a dock.
Context of, and specific resources for assessment	• The application of competency is to be assessed in the workplace or a simulated environment that reflects as far as possible the actual working environment. • Assessment is to occur using standard and authorised work practices, safety requirements and environmental constraints. • Assessment is to comply with relevant regulatory requirements, including specified Australian standards. • Where applicable, reasonable adjustment must be made to work environments and training situations to accommodate ethnicity, age, gender, demographics and disability.

EVIDENCE GUIDE	

	• The following resources should be made available:
	  • appropriate workplace (i.e. dockside)
	  • appropriate vessel
	  • equipment and tools appropriate to launching and mooring a motorised vessel
	  • organisational procedures, including OHS requirements.

Method of assessment	• Assessment must satisfy the endorsed Assessment Guidelines of this Training Package. • Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of Required Skills and Knowledge. • Assessment methods must be by direct observation of tasks and include questioning on Required Skills and Knowledge to ensure its correct interpretation and application. • Assessment may be applied under project-related conditions (real or simulated) and require evidence of process. • Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances. • Competence in this unit may be assessed in conjunction with other functional units which together form part of the holistic work role.
Guidance information for assessment	Assessment processes and techniques must be culturally sensitive and appropriate to the language and literacy capacity of the candidate and the work being performed.

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. 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.

RANGE STATEMENT	
Check safety equipment	Check safety equipment may include: • checking navigation lights • checking bilge pump capacity • checking rope and cable size and length
Manoeuvre and secure vessel	Manoeuvre and secure a vessel may include manoeuvring and securing: • to a dock • to a swing mooring • off a dock • off and away from a swing mooring
Inspecting seaworthiness of vessel	Inspecting seaworthiness of vessel may include: • checking safety equipment for fitment • checking currency and accessibility of vessel • checking vessel hull and fittings for safety and journey suitability • checking fuel • checking other resources
Conditions	Conditions may include: • coastal • estuary • day and night • salt and/or fresh water • varying water depth • climatic conditions
Vessel	Vessel may include: • vessels up to 90 metres • single or multi-hull • powered or non-powered propulsion system • open, half or full cabin • wood, aluminium or composite material construction
Safe operating procedures	Safe operating procedures may include operational risk assessments associated with marine licence requirements and the International Regulations for Preventing Collisions at Sea 1972 (COLREGS), and includes: • rope, chain and steel cable dangers

RANGE STATEMENT	
	• vessel and dockside flammable materials • fire prevention • toxic substances • electrical safety • machinery movement and operation • manual and mechanical lifting and shifting • working in proximity to others
Tooling and equipment	Tooling and equipment may include: • communication equipment (e.g. emergency position indicating radio beacon (EPIRB)) • suitable ropes, chains and tie-downs • general hand tools and lubricants • specialist tools (e.g. electric winch harness and remote, winch handles and leather gloves) • tow vehicle suitable for the task
Information/documents	Information/documents may include: • vessel manufacturer and/or component supplier specifications (operational), seaworthiness vessel and equipment checklist and vessel operational checklist • safe work procedures related to the driving and manoeuvring of motorised vessel • regulatory/legislative requirements pertaining to marine craft • engineer's design specifications and instructions • organisation work specifications and requirements • instructions issued by authorised enterprise or external personnel • Australian standards • industry standards (e.g. American Boat and Yacht Council, National Marine, Manufacturer's Association and US Coast Guard)
Legislative requirements	Legislative requirements are to be in accordance with applicable commonwealth, state or territory legislation, regulations, certification requirements and codes of practice, and may include:

RANGE STATEMENT	
	• International Regulations for Preventing Collisions at Sea 1972 (COLREGS) award and enterprise agreements • industrial relations • Australian standards • Australian Design Rules • confidentiality and privacy • OHS • the environment • equal opportunity • anti-discrimination • duty of care • current boating licence
OHS requirements	OHS requirements are to be in accordance with applicable commonwealth, state or territory legislation and regulations, and organisational safety policies and procedures, and may include: • personal protective equipment and clothing • safety equipment • first aid equipment • hazard and risk control • elimination of hazardous materials and substances • manual handling, including shifting, lifting and carrying • emergency procedures
Environmental requirements	Environmental requirements may include: • waste management • noise • dust • clean-up management
Organisational policies and procedures	Organisational policies and procedures may include: • quality policies and procedures, including Australian standards • OHS, sustainability environment, equal opportunity and anti-discrimination • manufacturer specifications and industry codes of practice • safe work procedures

RANGE STATEMENT	
	• reporting and recording procedures

Unit Sector(s)

Unit sector	Marine

Co-requisite units

Co-requisite units		

Competency field

Competency field	