MARC004 Operate deck machinery

Release: 1

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Modification History

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to safely use deck machinery on a vessel.

This unit applies to engine workers in the maritime industry working as a Marine Engine Driver Grade 3 Near Coastal on vessels up to 500 kW or as a Marine Engine Driver Grade 2 Near Coastal on vessels up to 750 kW or as a Marine Engine Driver Grade 1 Near Coastal on vessels up to 1500 kW.

This unit has links to legislative and certification requirements.

Pre-requisite Unit

Not applicable.

Competency Field

C - Equipment Operations

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 Prepare lifting equipment and deck machinery for use	1.1 Appropriate personal protective equipment and machinery is selected, used and stored according to work health and safety (WHS)/occupational health and safety (OHS) requirements
	1.2 Routine pre-operational checks are carried out on lifting equipment and deck machinery according to manufacturer specifications, regulatory and organisational requirements
	1.3 Deviations from the norm are promptly identified and rectified

		1.4	Adjustments are made to achieve a safe and efficient operation
		1.5	Inability to start machinery is reported promptly and accurately to appropriate personnel
2	**Operate lifting equipment and deck machinery**	2.1	Machinery is operated in a safe and controlled manner
		2.2	Machinery is operated within defined operating limits when running, to achieve optimum safety and efficiency
		2.3	Deviations from normal operations are promptly identified
		2.4	Action is taken to rectify basic operational faults to maintain optimum safety and efficiency
		2.5	Appropriate action is taken in a malfunction or emergency
3	**Check and complete lifting equipment and deck machinery operations**	3.1	Equipment and machinery shut-down procedures are carried out according to manufacturer specifications and organisational procedures
		3.2	Equipment and machinery damage, malfunctions or irregular performance is recorded and reported according to organisational procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

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

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

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

Pre-operational checks include one or more of the following:	• inspecting safety guards, power take off stubs and shafts
	• lifting equipment
	• observing and monitoring noise levels for correct operation
	• pre-start and safety checks including:
	  • oils and lubricants
	  • lines
	• emergency stops

Lifting equipment and deck machinery include one or more of the following:	• basic hydraulic systems • capstans • cranes • trawling and fishing gear • winches • windlasses
Safe and controlled manner includes one or more of the following:	• maintaining workloads within specifications • selecting and using appropriate machinery and equipment • using operational techniques for specific location and weather conditions
Basic operational faults include one or more of the following:	• failure of hydraulic lines • machinery break downs • structural failure

Unit Mapping Information

This is a new unit. This unit is equivalent to MARC2004A Operate deck machinery.

Links

MAR Maritime Training Package Companion Volume Implementation Guide at: -
http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=22

Transport & Logistics Industry Skills Council