Modification history

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| Release | Comments |
| Release 1 | This version released with SFI Seafood Industry Training Package Version 1.0. |

| SFIFSH311 | Operate vessel deck machinery and lifting appliance |
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| Application | This unit of competency describes the skills and knowledge required to operate deck machinery and lifting appliances aboard an aquaculture or fishing vessel. It includes the ability to carry out rope work, operate cranes, winches, capstans and windlasses and assist in maintaining vessel stability and mooring operations.  The unit applies to individuals who operate vessel deck machinery and lifting appliances aboard a vessel where a licence or permit is not required.  All work must be carried out to comply with workplace procedures, according to state/territory health and safety, food safety, biosecurity and environmental regulations, legislation and standards that apply to the workplace.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Fishing Operations (FSH) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Use and maintain ropes, slings and chains used for lifting or hauling operations | 1.1 Select and fit the required personal protective equipment for lifting or hauling operations  1.2 Identify rope, sling and chain materials, methods of construction, measurement methods, physical characteristics and common areas of use for the operation  1.3 Monitor load constantly to ensure load and structural stability  1.4 Check ropes, slings and chains for wear and maintain and stow according to workplace procedures  1.5 Ensure correct application of ropes, slings and chains used for lifting or hauling operations  1.6 Carry out routine post-operational equipment checks according to manufacturer instructions and health and safety requirements |
| 2. Operate cranes, winches, capstans and windlasses | 2.1 Select, check and prepare cranes, winches, capstans and windlasses for operation according to design specifications  2.2 Give, interpret and follow required signals according to Australian standards  2.3 Carry out securing of the vessel at anchor, to another vessel, to a sea cage or wharf according to safety regulations  2.4 Assess load mass and correlate with lifting capacity of equipment being used throughout proposed operation  2.5 Operate cranes, winches, capstans and windlasses to carry out lifting or hauling operations according to manufacturer instructions and safety requirements  2.6 Keep work area free of loose ropes, wires and debris throughout operations  2.7 Operate equipment controls smoothly and according to manufacturer instructions |
| 3. Maintain the stability of the vessel whilst conducting lifting or hauling operations | 3.1 Access and interpret stability data according to workplace procedures  3.2 Apply workplace stability criteria while conducting lifting and hauling operations  3.3 Monitor vessel stability against criteria appropriate to the type and nature of the operation  3.4 Take appropriate and prompt action where stability factors have or could exceed acceptable safety limits  3.5 Take special precautions where vessel operations affect the stability and watertight integrity of the vessel  3.6 Take timely and appropriate action to anticipated environmental changes that may affect the stability of the vessel  3.7 Take appropriate action in emergency situations to maintain the stability of the vessel within safety limits  3.8 Ensure instructions to others regarding vessel stability and related action are appropriate, timely, clear and concise |
| 4. Shut down and stow deck machinery and lifting equipment | 4.1 Check all deck machinery and lifting and hauling equipment components for signs of deterioration or damage according to workplace procedures and manufacturer instructions  4.2 Segregate and report damaged or worn equipment to an authorised person for testing, repair or destruction  4.3 Stow and secure lifting and hauling equipment according to workplace procedures and manufacturer instructions  4.4 Immobilise and secure deck machinery and equipment for travel according to manufacturer instructions, workplace procedures and regulatory requirements  4.5 Update records accurately and promptly and process according to workplace procedures  4.6 Check and authorise all certified lifting equipment regularly according to regulatory health and safety requirements295 |

| Foundation Skills  This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria. | |
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| Skill | Description |
| Reading | * Read safety rules and regulations |
| Numeracy | * Estimate safe working loads of ropes, wires, chains and slings * Read levels of tanks and void spaces * Read temperature-monitoring devices |
| Navigate the world of work | * Interpret and follow regulatory requirements and seek clarification or other assistance when required * Take responsibility for planning activities and making decisions about when and how to complete tasks and coordinate with others |
| Interact with others | * Use appropriate vocabulary, conventions and protocols, including technical language relevant to role * Cooperate and collaborate with others to conduct lifting operations |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| SFIFSH311 Operate vessel deck machinery and lifting appliance | SFIFISH311A Operate vessel deck machinery and lifting appliance | Updated to meet Standards for Training Packages.  Minor amendments to performance criteria for clarity. | Equivalent unit |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet:  https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273 |

| TITLE | Assessment requirements for SFIFISH311 Operate vessel deck machinery and lifting appliance |
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| Performance Evidence | |
| An individual demonstrating competency must satisfy all the elements and performance criteria of this unit. There must be evidence that the individual has operated deck machinery and lifting equipment aboard an aquaculture or fishing vessel on at least one occasion including:   * using personal protective equipment * selecting, using and maintaining ropes, slings and chains for lifting or hauling operations * checking, preparing and operating cranes, winches, capstans and windlasses safely * assisting in mooring operations * communicating effectively with others when operating deck machinery and lifting equipment * maintaining the stability of the vessel while safely operating vessel deck machinery and lifting appliances * completing shut down and stowing of machinery and equipment * completing records for lifting or hauling operations * applying health and safety and regulatory requirements throughout lifting or hauling operations. | |

| Knowledge Evidence |
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| An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:   * principles relating to vessel lifting and hauling operations including * relevant industrial agreements, codes of practice or other legislative requirements * different configurations of mooring lines for various parts of a vessel * hazards that could occur if the operation is not controlled properly * relevant health and safety procedures and regulations * status of safety equipment * principles relating to: * the correct application of common knots, bends and hitches * how a vessel is made fast to the wharf, sea cage or another vessel * mooring systems, including the specific functions of the mooring leads * how to maintain the stability of a vessel * procedures relating to: * operating of cargo lifting and securing equipment * setting up and rigging of lifting equipment on board the vessel * operating powered equipment in all modes, including emergency operation * operating deck machinery and lifting equipment applications, capacities, configurations, safety hazards and control mechanisms * preparing deck machinery for use in ambient conditions * problems that arise when operating deck machinery or lifting equipment and actions that should be taken to prevent or solve them * splicing rope and tying common knots, bends and hitches. |

| Assessment Conditions |
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| * physical conditions: * skills must be demonstrated in a fully operational aquaculture or fishing vessel or an environment that accurately represents workplace conditions * resources, equipment and materials: * ropes, slings and/or chains * vessel deck machinery and lifting appliances * specifications: * workplace procedures for lifting and hauling operations that includes advice on health and safety and regulatory requirements * manufacturer operating and maintenance instructions for deck machinery and lifting equipment * relationships: * interactions with other crew members.   Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. |

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