

Competency Framework for Skipper Fishing Vessel - Unlimited

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Function: Maritime Law

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Managing national and international legal requirements aboard a deep sea fishing vessel	Implementing applicable international agreements and conventions	Approved training and service experience by way of written assessment and oral examination.	<p>Demonstrates understanding of international maritime law as embodied in the international agreements and conventions on safety of fishing vessels, as they affect the specific obligations and responsibilities of the skipper, particularly those concerning safety and the protection of the environment. Particular regard shall be paid to the following subjects:</p> <p>1. Certificates and other documents required to be carried on board fishing vessels by international conventions, how they can be obtained, and the period of their validity. Candidates will be expected to have a working knowledge of such documents and certificates which include the following:</p> <ul style="list-style-type: none"> • crew list • official log book • shipping casualty reports • certificate of survey • MTOP and MTOC certificates • master's and crew certificates

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Managing national and international legal requirements aboard a deep sea fishing vessel <i>continued</i>	<i>Implementing applicable international agreements and conventions cont.</i>		<ul style="list-style-type: none"> • certificate of registry • customs clearance certificates • crew passports • crew vaccination certificates • maritime declaration of health • agriculture and forestry border control. <p>2. Responsibilities under the relevant requirements of the Torremolinos Protocol.</p> <p>3. Responsibilities under the relevant requirements of chapter V of the International Convention for the Safety of Life at Sea, 1974.</p> <p>4. Responsibilities under Annex I and Annex V of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 thereto.</p> <p>5. International health regulations</p> <p>6. Responsibilities under the Convention on International Regulations for Preventing Collisions at sea, 1972</p> <hr/> <p>Demonstrates general knowledge of the requirements relating to stranding, collision, death or injury and distress.</p> <hr/> <p>Demonstrates an appreciation for the necessity to maintain crew and accommodation hygiene in accordance with current legislation.</p> <hr/> <p>Describes the skipper's responsibilities when engaging and discharging a crew.</p>

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Managing national and international legal requirements aboard a deep sea fishing vessel <i>continued</i>	<i>Implementing applicable international agreements and conventions cont.</i>		Demonstrates understanding of the Master's duties and responsibilities with respect to log book, musters and drills, marine casualties, urgency signals, search and rescue and pilotage.
			Demonstrates general understanding of salvage and towage agreements.
			Demonstrates knowledge of the Maritime Transport Act and Occupational Safety and Health Regulations applicable to the operation of deep-sea fishing.
			Demonstrates a working knowledge of the items listed in the appropriate sections of the FAO/ILO/IMO Code of Safety for Fishermen and Fishing Vessels, Part A, and in chapter VIII of the Annex to the 1993 Torremolinos Protocol.

Function: Crewing

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Management of crewing requirements	Maritime Rules	Approved training and service experience by way of written assessment and oral examination.	Demonstrates an understanding of Maritime Rule Part 31 with regard to the crewing requirements for deep sea fishing vessels

Function: Command Principles and Ship Management

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
<p>Command of a deep sea fishing vessel</p>	<p>Leadership and Management</p>	<p>Approved training and service experience by way of written assessment and oral examination.</p>	<p>Defines command.</p>
			<p>Identifies the sources giving legal authority to the skipper to command a fishing vessel.</p>
			<p>Defines formal and informal leadership.</p>
			<p>Differentiates between effective and ineffective command.</p>
			<p>Demonstrates understanding of how to prevent fatigue and minimise its effects, should fatigue occur.</p>
			<p>Explains the actions to take when dealing with drunken and/or incompetent personnel.</p>
			<p>Describes the structure of a traditional shipboard organisation, and discusses recent trends.</p>
			<p>Explains the importance of good communications within an organisation.</p>
			<p>Demonstrates understanding of how to evaluate advice from others</p>

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Command of a deep sea fishing vessel <i>continued</i>	<i>Leadership and Management cont.</i>	Approved training and service experience by way of written assessment and oral examination.	Demonstrates understanding of the importance of effective communication with shore officials, such as Company Shore Managers, Customs, Immigration, Health, Surveyors etc.

Function: Marine Pollution

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Legal requirements for prevention of pollution	Legislation.	Approved training and service experience by way of written assessment and oral examination.	Defines pollution of the marine environment.
			Explains the provisions of Part XIX of the Maritime Transport Act with particular reference to the following sections: <ul style="list-style-type: none"> • Interpretation. Section: 225. • Obligation to protect Marine Environment from harmful substances. Sections: 226, 227, 228, 230. • Powers of the Director (of Maritime New Zealand) in relation to protection of Marine Environment from harmful substances. Sections: 233, 235. • Defences. Section: 243. • Penalties. Sections: 244, 245, 246.
			Demonstrates a working knowledge of the New Zealand legislation for the prevention of pollution from ships as covered by the relevant parts of section XVIII of the Maritime Transport Act 1994 and the rules currently in force.
			Describes the requirements of Part 170 of the Marine Protection Rules – Prevention of Pollution by Garbage from Ships and Offshore Installations
			Describes the provisions of the Marine Protection Rules under sections of the Maritime Transport Act.

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Pollution Prevention.	Practical methods of pollution prevention and knowledge of MARPOL	Approved training and service experience by way of written assessment and oral examination.	Describes the International Convention for the Prevention of Pollution from Ships known as MARPOL as it applies to ships up to 500 gross tonnage and fishing vessels up to 60 metres registered length.
			Describes the limits and conditions under which plastics, dunnage, packaging materials and other garbage may be disposed of.
			Identifies and explains methods of dealing with oily water in bilge's and tanks.
			Identifies and explains practical steps to avoid discharge of oil over side when loading or transferring oil fuel.
			Describes precautions to be routinely taken to prevent pollution of the marine environment by oil, garbage or other pollutants.
			Lists and explain the actions to take in the event of an oil spillage or other pollution event.

Function: Ocean Navigation

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Management of ocean navigation.	Use of compass and determining the vessels position by celestial observations	Approved training and service experience by way of written assessment and oral examination.	Finds the compass error and the deviation by calculating the azimuth of the sun or a star from the nautical almanac, appropriate navigation tables and given navigational information.
			Finds the compass error by calculating the amplitude of the sun from the nautical almanac, appropriate navigation tables and given navigation information.
			Calculates the direction of the position line and a position through which it passes from an observation of the sun on or out of the meridian or a star out of the meridian
			Plots the ship's position on a given chart by a combination of any two celestial, terrestrial or radio aid position lines with or without a run between them, and assesses the accuracy of the position obtained.
			Uses nautical publications to assess the accuracy of a fix.

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Management of ocean navigation cont.	<i>Use of compass and determining the vessels position by celestial observations cont.</i>	Approved training and service experience by way of written assessment and oral examination.	Uses plane sailing formulae or traverse tables to find: <ul style="list-style-type: none"> • the course and distance between two given positions, • the arrival position and ETA, given the courses and distances sailed from the last observed position, and • determines a dead reckoning position or estimated position. Demonstrates knowledge of Mercator charts and how to use them.
Ocean voyaging	Plan an ocean voyage.	Approved training and service experience by way of written assessment and oral examination.	Describes the preparations to make in order to carry out an ocean voyage with particular reference to manning, certificates, safety equipment, deck equipment, navigation equipment, navigation publications, stores, water and fuel.

Function: Radar Navigation

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Operate Radar	1. Performance.	Approved training and service experience by way of written assessment and oral examination.	Identified the factors affecting the performance and accuracy of the radar being used
	2. Using the radar and interpreting the data received from the radar.		Identifies misrepresentations.
			Identifies critical echoes.
	3. Using Radar for Collision Avoidance.		Demonstrates how to establish the range and bearing of a radar target.
			Demonstrate how to establish the course and speed of other ships.
			Determines the time and distance of closest approach of the following: <ul style="list-style-type: none"> • crossing ships, • meeting ships, and • overtaking ships.
			Demonstrates how to identify the effect of changes in own vessel's course and or speed.

Function: Watch Keeping

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Management of Watchkeeping.	1. Safe Watchkeeping Practices.	Approved training and service experience by way of written assessment and oral examination.	Describes the following safe watchkeeping practices: <ul style="list-style-type: none"> • watchkeepers to be experienced and capable, • precautions to be taken against fatigue, • number of watchkeepers to be increased at critical times, • auto pilot to have a frequent re-set alarm • radar to be used in addition to and not instead of a visual lookout, and • the hazards associated with 'divided command'.
	2. Observe Basic Principles for Watch Keeping.		<p>Demonstrates knowledge of the content of the basic principles to be observed in keeping a navigational watch on board a deep sea fishing vessel, as prescribed in Chapter IV, Regulation 1 Annex to 1995 STCW-F.</p> <p>Demonstrates knowledge of responsibilities under the Convention on International Regulations for Preventing Collisions at sea, 1972, especially annexes II and IV concerned with safe navigation</p> <p>Describes how to plan a navigational watch</p> <p>Explains and demonstrates how to maintain a navigational watch.</p> <p>Explains and demonstrates how to maintain an anchor watch.</p> <p>Describes the duties of the person in charge of the bridge watch with regard to establishing the vessel's position as accurately as possible at regular intervals.</p>

Function: Fishing Power Plant and General Engineering

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Engineering.	1. Power Plants.	Approved training and service experience by way of written assessment and oral examination.	Describes the general operating principles and use of marine power plants in vessels including: <ul style="list-style-type: none"> • auxiliary and emergency machinery, • marine engineering terms, • control systems, • main propulsion and drive systems, • steering systems, • deck machinery, and • bilge pumping systems.
	2. Associated Dangers.		Describes the dangers associated with refrigerants, flammable gases, petroleum products, asbestos, cleaning materials, including organochlorides used on fishing vessels and knows the stowage and other precautions to take in order to minimise these dangers.

Function: Meteorology

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Meteorology.	Tropical Revolving Storms.	Approved training and service experience by way of written assessment and oral examination	Describes the warning signs of tropical revolving storms, and indicates the correct action to take to avoid storm centers and the dangerous quadrant.
			Identifies the weather associated with tropical revolving storms.
			Explains the season, area of origins, typical tracks and warning signs of tropical revolving storms.

Function: Fishing Vessel Manoeuvring and Handling

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Manoeuvring and Handling.	1. Maneuvering and handling of a deep sea fishing vessel.	Approved training and service experience by way of written assessment and oral examination.	Demonstrates, by use of models, maneuvering and handling of a fishing vessel in all conditions including the following: <ul style="list-style-type: none"> • berthing, including the use of tugs, • clearing the berth, • anchor work under various conditions of wind and tide, shallow water, and in heavy weather, using one or two anchors, • maneuvering in shallow water, including interaction in a narrow channel, • management and handling of fishing vessels in heavy weather, including appropriate speed, particularly in following and quartering seas, • assisting a ship or aircraft in distress, • means of keeping an unmanageable vessel out of a sea trough and lessening lee drift, • maneuvering a vessel during fishing operations, with special regard to factors which could adversely affect safety, • practical measures to be taken when navigating in ice, icebergs or conditions of ice accretion on board the vessel, • the use of, and maneuvering in traffic separation schemes, • the importance of navigating at reduced speed in restricted waters in order to avoid damage caused by own vessel's bow or stern wave, • transferring fish to factory ships or other vessels, at sea, • refueling at sea,

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Manoeuvring and Handling <i>continued</i>			<ul style="list-style-type: none"> • dry-docking procedures, • maneuvering and engine characteristics including stopping distances, and • crossing harbor bars.
	<p>2. Handling of a Fishing Vessel.</p>	<p>Approved training and service experience by way of written assessment and oral examination.</p>	<p>Describes the principles for managing and handling a fishing vessel in heavy weather for the following scenarios:</p> <ul style="list-style-type: none"> • assisting a ship, vessel or aircraft in distress, • towing operations, • means of keeping an unmanageable fishing vessel out of a sea trough, • lessening drift, and • use of oil.
	<p>3. Manoeuvring and Engine Characteristic of Major Types of Fishing Vessels.</p>		<p>Describes the considerations and precautions for manoeuvring the fishing vessels during fishing operations with special regard to factors which could adversely affect the fishing vessel's safety during such operations.</p> <p>Demonstrates practical measures to be taken when navigating in ice or in conditions of ice accretion on board the vessel</p> <p>Demonstrates how to determine the manoeuvring and engine characteristics of the major types of fishing vessels with reference to the following:</p> <ul style="list-style-type: none"> • stopping distances, and • turning circles at various drafts and speeds.
			<p>Describes the considerations and precautions for manoeuvring the fishing vessels during fishing operations with special regard to factors which could adversely affect the fishing vessel's safety during such operations.</p>

Function: Stability

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Management of vessel stability	Transverse stability	Approved training and service experience by way of written assessment and oral examination.	Describes how to management of stability for a full voyage
			Describes the effect on stability of freely suspended weights and weights free to move.
			Describes the effect of free surface on stability, and the measures to take to eliminate it.
			Describes the fundamental action to be taken in the event of partial loss of initial buoyancy. Shows an appreciation of the reduction in stability of the vessel when in the listed condition
			Explains the necessity of having a voyage stability plan
			Explains the effect of stability of: <ul style="list-style-type: none"> • landing the net on board • the amount and disposition of the catch • the changing conditions throughout the voyage
			Explains the causes and dangers of negative GM and angle of loll

Function: Fire Prevention and Fire Fighting

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Manage fire prevention and fire fighting	Main causes of fire, actions to be taken and fire fighting equipment	Approved training and service experience by way of written assessment and oral examination.	Explains the different classes and chemistry of fire
			Demonstrates understanding of the various fire fighting systems common on board fishing vessels.
			Describes the following: <ul style="list-style-type: none"> • The appropriate action to take on finding a fire on board, • where to direct a jet of foam to extinguish an oil fire, • the correct extinguisher to use on each type of fire, • the location of Fire Fighting Appliances on board, and • the appropriate action to be taken after a fire.
			Describes fire safety procedures and the use of portable and fixed fire-fighting equipment.
			Identifies the rule requirements for fire fighting equipment for unlimited fishing vessels.
			Demonstrates how to apply the procedures for organising fire and emergency and organises fire drills.

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Manage fire prevention and fire fighting continued.	<i>Main causes of fire, actions to be taken and fire fighting equipment cont.</i>	Approved training and service experience by way of written assessment and oral examination.	Describes the fire fighting equipment and systems commonly found on board deep sea fishing vessels
			Explains the rule provisions re fire fighting equipment on board deep sea fishing vessels

Function: Emergency Procedures

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Managing Emergency Situations.	1. Fishing Vessel Beaching .	Approved training and service experience by way of written assessment and oral examination.	Describes the precautions to be taken when beaching a vessel.
	2. Launching Rescue Boats.		Describes manoeuvring for launching rescue boats or survival craft, in bad weather.
	3. Fishing Vessel Grounding.		Identifies the actions to be taken prior to and after grounding.
	4. Gear Becoming Fast to the Ground or Other Obstructions.		Describes the action to be taken when the gear becomes fast to the ground or other obstruction.
	5. Re-floating a Grounded Vessel.		Describes the process for floating grounded vessel, with and without assistance.
	6. Collision.		Describes the appropriate actions to be taken after a collision.
	7. Watertight integrity		Describes how to plug leaks using appropriate procedures.
	8. Contingency Planning.		Describes how to prepare a contingency plans for the protection and safety of fishing vessel personnel in emergencies.

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
		Approved training and service experience by way of written assessment and oral examination.	Demonstrates the ability to follow emergency procedures specified in the vessel's contingency plan.
	9. Limiting Damage and Salving.		Describes the measure to be taken to prevent falling or being swept overboard.
	10. Abandon Ship.		Describes the relevant emergency situation duties and responsibilities.
	11. Emergency Steering Arrangements.		Demonstrates how to conduct muster drills.
	12. Heavy Weather		Describes the procedures for limiting damage and salving the vessel following a fire or explosion.
	13. Oil Spill		Describes the procedures to be followed in abandoning the fishing vessel.
			Describes the actions to be taken in the event of loss of the ruder or propeller, including emergency steering, rigging and use of jury steering and the means of rigging a jury rudder where practicable
	Demonstrates understanding of the recognised procedure and precautions to take, prior to, during and afterwards in the event of heavy weather, including measures for the protection and safety of crew		
	Demonstrates understanding of the recognised procedure and precautions to take, prior to, during and afterwards in the event of an oil spill, including response plans and the use of equipment carried.		

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Assistance in Emergency Situations.	1. Rescuing Persons from a Ship in Distress or Wreck.		<p>Describes the preparations and actions to be taken when rescuing people from life rafts or survival craft.</p> <p>Demonstrate how to follow the recommended procedures for rescuing persons from a ship in distress or a wreck.</p> <p>Describes the man overboard procedures.</p> <p>Demonstrates how to follow the man overboard procedures.</p>
	2. Towing.		<p>Describe the procedures for towing and being towed.</p> <p>Demonstrates how to apply the procedures for towing and being towed.</p>

Function: Medical Care

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Manage medical first aid	In charge of medical care aboard ship.	Approved training and service experience by way of written assessment and oral examination.	Describes how to manage medical first aid aboard a deep sea fishing vessel apply first aid.
	Medical Advice.		Describes the procedure for obtaining medical advice by radio.
	International Medical Guide for Ships.		Demonstrates ability to use and interpret information from the International Medical Guide for Ships or its equivalent publications.
	International Code of Signals.		Demonstrates how to use the medical section of the International Code of Signals.

Function: Casualty Reporting

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Accident Reporting.	Casualty reporting requirements	Approved training and service experience by way of written assessment and oral examination.	States the range of accidents specified in the current legislation which must be reported to Maritime New Zealand on a Casualty Report Form.
			Identifies and explains the information, which must be gathered and recorded at the time of any accident, specified in current legislation, and which may be required to complete an accident report.
			Identifies and explains the procedures, specified in the current legislation, with respect to the reporting of accidents.

Function: Distress Communications

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Managing distress communications.	1. Select Appropriate Services.	Approved training and service experience by way of written assessment and oral examination.	Identifies navigational and meteorological warning systems.
			Explains how to select the appropriate service.
	2. Operate Radio Telecommunications.		Describes how to operate radio communication equipment.
			Describes how to operate radio services in an emergency.
			Explains how to apply search and rescue radio communication procedures.
			Explains how to use the ship reporting system.
			Describes how to apply the radio medical services procedure.
			Describe the measures to protect personnel from radiation hazards.
	3. International Codes.		Explains how to use the International Code of Signals.
			Describes how to transmit and receive signal by Morse Light.

Function: Survival Techniques

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Response Procedure.	1. Emergency.	Approved training and service experience by way of written assessment and oral examination.	Describes the procedures to be taken in response to emergencies.
			Identifies all the methods for signaling distress available to the crew of a fishing vessel.
			Describes and demonstrate how to tune an SSB or VHF radio transmitter in order to send a distress signal and correctly repeat the format of a MAYDAY call.
	2. Survival.		Describes personal survival procedures.
	Describes the value of emergency training drills.		
Emergency Equipment.	1. Location of Emergency Equipment.	Identifies the location of the lifesaving equipment.	
	2. Use of Life Jackets and Lifebuoys.	Describes the use of life jackets and lifebuoys and the situations where it is appropriate to use them.	
		Describes how to use life jackets, lifebuoys and immersion suits.	
	3. Use of Flare	Describes the use of flare and rockets and the situations where it is	

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
	and Rockets		appropriate to use them.
			describes how to use flares and rockets.
	4. Use of Life Rafts		Describes the use of life rafts and the situations where it is appropriate to use them.
			Identifies the equipment that is to be in a life raft.
			Describes how to use life rafts.

Function: Search and Rescue

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Managing Search and Rescue.	Search and Rescue Procedures.	Approved training and service experience by way of written assessment and oral examination.	Identifies search and rescue procedures specified by the Merchant Ship Search and Rescue Manual (MERSAR) and the International Aeronautical and Maritime Search and Rescue Manual (IMAMSAR Manual).
			Explains the advantages and requirements of ship reporting schemes including AUSREP and AMVER.
			Describes the composition of the Search and Rescue Organisation in New Zealand,
			Describes the techniques likely to be employed to conduct an offshore search in accordance with procedures based on the Merchant Ship Search and Rescue (MERSAR) Manual

Function: Official Log Book

Competence	Knowledge, understanding and proficiency	Methods for demonstrating competence	Criteria for evaluating competence
Official Log Book (OLB).	OLB Procedures and Entries.	Approved training and service experience by way of written assessment and oral examination.	Identifies which vessels are required to keep an OLB.
			Identifies and explains the required and desirable entries to be made in the OLB.
			Explains the procedure for the delivery and archiving of the OLB.
			Demonstrate knowledge that vessels not required to keep an OLB must maintain proper records under Maritime Rules Parts 19 and 44