

National Certificate in Seafood Vessel Operations (Marine Engineering) (Level 4)

Level	4
Credits	238

Purpose

The purpose of this qualification is to recognise the skills and knowledge required to work as second engineer aboard a deep-sea commercial fishing vessel. It includes the general skills required to work safely at sea, comply with fisheries legislation, comply with food hygiene requirements within the seafood processing industry, and the engineering skills required to operate and maintain, under the direction of a chief engineer, the systems aboard a deep-sea commercial fishing vessel.

This national certificate has a compulsory and an elective section, and is designed to build on the skills of existing engineering qualifications. It provides a pathway to the National Diploma in Seafood Vessel Operations (Marine Engineering) (Level 7) [Ref: 1149].

This qualification is complementary to the Maritime New Zealand Marine Engineer Class 4 license. The Marine Engineer Class 4 license focuses on command and the broad engineering aspects of maritime safety, while this qualification focuses on the detailed engineering requirements of seafood harvesting vessels. The two qualifications do not lead from one to the other.

Special Notes

It is recommended that people working towards this qualification hold a national certificate in an engineering field or have skills and knowledge equivalent to those of an engineering tradesman. For information regarding the suitability of any other engineering qualification, please contact the Seafood Industry Training Organisation (see below).

Credit Range

	Compulsory	Elective
Level 1 credits	3	-
Level 2 credits	55	-
Level 3 credits	58	-
Level 4 or above credits	82	40
Minimum totals	198	40

Requirements for Award of Qualification

Award of NQF Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided in section 7 of the New Zealand Qualifications Authority (NZQA) Rules and Procedures publications available at <http://www.nzqa.govt.nz/ncea/acrp/index.html>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

Summary of Requirements

- Compulsory standards
- Elective – A minimum of 40 credits as specified

Detailed Requirements

Compulsory

The following standards are required

Agriculture, Forestry and Fisheries > Seafood > Seafood Generic

ID	Title	Level	Credit
20935	Describe the Quota Management System in New Zealand	2	5

Agriculture, Forestry and Fisheries > Seafood > Seafood Processing

ID	Title	Level	Credit
5332	Maintain personal hygiene and use hygienic work practices while working with seafood	2	7

Agriculture, Forestry and Fisheries > Seafood > Seafood Risk Management

ID	Title	Level	Credit
16559	Describe responsibilities of a seafood industry worker under fisheries legislation	2	5
21067	Demonstrate knowledge of occupational safety and health aboard a commercial seafood vessel	5	10

Agriculture, Forestry and Fisheries > Seafood > Seafood Vessel Operations

ID	Title	Level	Credit
17952	Demonstrate knowledge of on board parts stock systems for a trawler fish processing factory	4	6
19877	Demonstrate knowledge of protection of the marine environment during seafood vessel operations	2	2

ID	Title	Level	Credit
20168	Work on a commercial fishing vessel	2	10
21070	Demonstrate knowledge of seafood vessel stability	4	20

Engineering and Technology > Electrical Engineering > Core Electrical

ID	Title	Level	Credit
10933	Demonstrate knowledge of electrical theory for Electrical Service Technicians - A	3	4
10934	Demonstrate knowledge of safety, protection, and testing for Electrical Service Technicians - A	3	2
10935	Demonstrate knowledge of regulations and codes of practice for Electrical Service Technicians - A	3	2
10936	Demonstrate practical skills required for Electrical Service Technicians - A	3	3
10937	Demonstrate knowledge of electrical theory for Electrical Service Technician - B	3	3
10938	Demonstrate knowledge of appliance isolation, connection, and testing procedures for EST - B	3	2
10939	Demonstrate knowledge of regulations and codes of practice for Electrical Service Technicians - B	3	2
10940	Demonstrate practical skills required for Electrical Service Technicians - B	3	3

Engineering and Technology > Mechanical Engineering > Fluid Power - Hydraulics

ID	Title	Level	Credit
2727	Service hydraulic power system components under supervision	3	20
2731	Service hydraulic power system components	4	20
2733	Diagnose hydraulic power system faults	4	20
20597	Make a hydraulic power system safe	2	4
20599	Clean a hydraulic power system for service	2	4
20611	Demonstrate knowledge of hydraulics and hydraulic power systems	2	5
20613	Maintain a hydraulic power system under supervision	2	5

Health > Occupational Health and Safety > Occupational Health and Safety Practice

ID	Title	Level	Credit
497	Demonstrate knowledge of workplace health and safety requirements	1	3

Service Sector > Maritime > Maritime Engineering

ID	Title	Level	Credit
15071	Operate refrigeration equipment on board a vessel	3	7
15072	Maintain refrigeration equipment on board a vessel	4	6

Service Sector > Maritime > Sea Survival and Sea Safety

ID	Title	Level	Credit
12306	Identify common parts, fittings and equipment on a vessel	2	3
12309	Demonstrate knowledge of abandon ship procedures and demonstrate sea survival techniques	3	10
12310	Prevent, extinguish and limit the spread of fire on a vessel	2	5

Elective

A minimum of 40 credits at Level 4 or above

Field	Subfield	Domain
Agriculture, Forestry and Fisheries	Seafood	Any
Engineering and Technology	Electrical Engineering	Any
	Mechanical Engineering	Any
	Motor Industry	Any

Transition Arrangements

Version 2

Version 2 was issued following the review of standards in the Seafood Vessel Operations domain. There were only minor issues that needed to be addressed, which are outlined below.

Changes to structure and content

- total credit requirement has increased from 233 to 238
- subfield Seafood has been added to the elective
- purpose statement has been updated to replace 'New Zealand Maritime Safety Authority' with 'Maritime New Zealand'
- standards' classifications, titles, and credits have been updated to reflect their review.

For detailed information see [Review Summaries](#) on the NZQA website.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
2722	20613
2723	20597
2724	20599
15677, 15678	20168

People currently enrolled in a programme leading to version 1 of this qualification may either complete that version or transfer to version 2.

NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	March 2005	December 2011
Review	2	January 2009	N/A

Standard Setting Body

Seafood Industry Training Organisation
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 Wellington 6142

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 Email admin@seafood.co.nz
 Website www.sito.co.nz

Planned Review

Any person or organisation may contribute to the review of this qualification by sending feedback to the standard setting body at the above address.

Next Review	2013
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Other standard setting bodies whose standards are included in the qualification

Competenz
 ElectroTechnology Industry Training Organisation (ETITO)
 New Zealand Industry Training Organisation

Certification

This certificate will display the logos of NZQA, the Seafood Industry Training Organisation and the accredited organisation.

Classification

This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

NQF Classification		NZSCED	
Code	Description	Code	Description
1648	Agriculture, Forestry and Fisheries > Seafood > Seafood Vessel Operations	031701	Engineering and Related Technologies > Maritime Engineering and Technology > Maritime Engineering

Quality Management Systems

Providers and Industry Training Organisations must be accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.

Prerequisite Diagram

