

## Repair and maintain equipment and structures for New Zealand sea-based aquaculture

**Level** 4

**Credits** 15

**Purpose** People credited with this unit standard are able to, for sea-based aquaculture: explain the equipment and structures used; prepare for repair and maintenance of equipment and structures; repair and maintain equipment and structures; and report on the repair and maintenance of equipment and structures.

This unit standard is intended for those personnel who have responsibility for the maintenance of equipment and structures for sea-based aquaculture.

**Subfield** Seafood

**Domain** Aquaculture

**Status** Registered

**Status date** 23 February 2007

**Date version published** 20 February 2009

**Planned review date** 31 December 2012

**Entry information** Open.

**Replacement information** This unit standard and unit standard 23646 replaced unit standard 19216.

**Accreditation** Evaluation of documentation and visit by NZQA and industry.

**Standard setting body (SSB)** Primary Industry Training Organisation

**Accreditation and Moderation Action Plan (AMAP) reference** 0123

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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### Special notes

- 1 All work practices must meet company safety requirements. The company safety requirements must meet the obligations of the Health and Safety in Employment Act 1992.

## 2 Definitions

*company requirements* refer to instructions to staff on policy and procedures that are communicated in an oral or written form. These requirements must include legislation and safety requirements and may include but are not limited to – manufacturers' instructions, industry codes of practice and standards;  
*legislation requirements*, in addition to those specified in the Health and Safety in Employment Act 1992, may include but are not limited to those specified in the Resource Management Act 1991 and Biosecurity Act 1993;  
*sea equipment* may include but is not limited to – pipes, monitoring equipment, unpowered work platforms;  
*sea structures* may include but are not limited to – rope lines, anchors, nets, sea cages, racks, floatation system, aids to navigation (marks and lights).

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## Elements and performance criteria

### Element 1

Explain the equipment and structures used for sea-based aquaculture.

Range one shellfish sea-based and one finfish sea-based.

### Performance criteria

- 1.1 The explanation includes the design and function of structures used for sea-based aquaculture.
- 1.2 The explanation includes the impact of the environment on structures used for sea-based aquaculture.
- 1.3 The explanation includes the impact of the structures used for sea-based aquaculture on the environment.
- 1.4 The explanation includes the design and function of equipment used for sea-based aquaculture.

### Element 2

Prepare for repair and maintenance of equipment and structures for sea-based aquaculture.

Range one of – shellfish sea-based or finfish sea-based.

### Performance criteria

- 2.1 A schedule is prepared for the repair and maintenance of equipment and structures identifying the tasks or work to be done, safety and legislation requirements, and the resources required.

Range resources may include but are not limited to – equipment, tools, spare parts, trades personnel, company personnel;  
evidence is required for three resources.

- 2.2 The repair and maintenance schedule is distributed to relevant personnel in accordance with company requirements.
- 2.3 The resources required for the repair and maintenance are gathered and checked for serviceability so that the task or work can be carried out.

### **Element 3**

Repair and maintain equipment and structures for sea-based aquaculture.

Range one of – shellfish sea-based or finfish sea-based.

#### **Performance criteria**

- 3.1 Equipment is repaired and maintained in accordance with the repair and maintenance schedule.
- Range includes but is not limited to – corrosion, wear and tear, damage.
- 3.2 Structures are repaired and maintained in accordance with the repair and maintenance schedule.
- Range includes but is not limited to – corrosion, structural integrity, damage.
- 3.3 Licensed trades personnel are accessed where necessary in accordance with company and legislation requirements.

### **Element 4**

Report on the repair and maintenance of equipment and structures for sea-based aquaculture.

Range one of – shellfish sea-based or finfish sea-based.

#### **Performance criteria**

- 4.1 Repair and maintenance problems and progress are documented and reported in accordance with company and legislation requirements.
- 4.2 Areas for improvement in the performance of equipment and structures are identified during repair and maintenance, and recommendations are documented and reported in accordance with company requirements.

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#### **Please note**

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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### **Comments on this unit standard**

Please contact the Primary Industry Training Organisation [standards@primaryito.ac.nz](mailto:standards@primaryito.ac.nz) if you wish to suggest changes to the content of this unit standard.