

## Demonstrate knowledge of, and carry out, thawing of cryopreserved milt for use on an aquaculture facility

**Level** 4

**Credits** 5

**Purpose** People credited with this unit standard are able to: demonstrate knowledge of thawing cryopreserved milt; and carry out thawing of cryopreserved milt, for use on an aquaculture facility.

**Subfield** Seafood

**Domain** Aquaculture

**Status** Registered

**Status date** 19 September 2008

**Date version published** 19 September 2008

**Planned review date** 31 December 2013

**Entry information** Recommended: Unit 19851, *Describe the biology of a fin fish*, and Unit 20464, *Prepare for and carry out spawning of broodstock for an aquaculture species* or demonstrate equivalent knowledge and skills.

**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

#### Definition

*Company requirements* refer to instructions to staff on policy and procedures that are communicated in an oral or written form. These requirements must include legislative requirements and company safety procedures, and may include but are not limited to – industry codes of practice and standards.

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## Elements and performance criteria

### Element 1

Demonstrate knowledge of thawing cryopreserved milt for use on an aquaculture facility.

#### Performance criteria

- 1.1 The selection of milt for thawing is explained in terms of its application on an aquaculture facility.
- Range may include but is not limited to – genetic improvement, inbreeding, fish performance, trait selection.
- 1.2 Identification of correct milt for thawing is described in accordance with company requirements.
- 1.3 Equipment and resources are explained in terms of laboratory preparation and use in the thawing process, and in accordance with company requirements.
- Range includes but is not limited to – water bath, female eggs for fertilization, thawing chemicals.
- 1.4 Potential hazards of handling liquid nitrogen and thawing chemicals are identified, and safe handling practices and remedial action to minimise the risk of hazards are described in accordance with company requirements.
- Range potential hazards include – low temperature burns, saturation burns, asphyxiation;  
safe handling practices include but are not limited to – wearing protective footwear and clothing.
- 1.5 The steps required to correctly thaw milt are described in accordance with company requirements.
- 1.6 The process of assessing milt quality and activity after thawing is described in accordance with company requirements.

### Element 2

Carry out thawing of cryopreserved milt for use on an aquaculture facility.

#### Performance criteria

- 2.1 Equipment and resources are prepared for use in accordance with company requirements.
- 2.2 Milt to be thawed is identified and recorded in accordance with company requirements.
- 2.3 Selected milt is thawed in accordance with company requirements.

- 2.4 Thawed milt is tested in accordance with company requirements.
- 2.5 Thawed milt is used over female eggs 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 at [standards@primaryito.ac.nz](mailto:standards@primaryito.ac.nz) if you wish to suggest changes to the content of this unit standard.