

Prepare for and carry out spawning of broodstock for an aquaculture species

Level 3

Credits 7

Purpose People credited with this unit standard are able to: prepare the broodstock for spawning, and carry out the spawning procedures for the broodstock and describe the importance of each step for an aquaculture species.

Subfield Seafood

Domain Aquaculture

Status Registered

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Entry information Open.

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>.

Special notes

- 1 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;
holding facilities refer to the facilities used for holding the broodstock. This may include but is not limited to – ponds, raceways, or tanks.
- 2 This unit standard can be applied to all aquaculture species, excluding aquatic plants.

Elements and performance criteria

Element 1

Prepare the broodstock for spawning for an aquaculture species.

Performance criteria

- 1.1 The processes used for stock selection are described in accordance with company requirements.
- 1.2 The assessment of maturation and the processes used for manipulation of the timing of maturation are described in accordance with company requirements.
- 1.3 The holding facility is set up and the broodstock prepared for assessment in accordance with company requirements.
- Range may include but is not limited to – confined, separated, anaesthetised.
- 1.4 The broodstock are assessed to determine the sex, status of maturation, and other relevant data in accordance with company requirements.
- 1.5 The mature broodstock are assessed for ripeness to determine readiness for spawning in accordance with company requirements.

Element 2

Carry out the spawning procedures for the broodstock and describe the importance of each step for an aquaculture species.

Performance criteria

- 2.1 The importance of environmental parameters in relation to the success of spawning the species is described.
- 2.2 The importance of each step in the spawning process is described.
- 2.3 The broodstock are prepared for stripping or spawning in accordance with company requirements.
- Range may include but is not limited to – euthanasia, bleeding, chemical manipulation, anaesthesia.
- 2.4 The eggs are obtained from the female broodstock in accordance with company requirements.
- Range may include but is not limited to – handling of eggs, avoiding contamination, stripping or spawning, surgical removal.

- 2.5 The eggs are assessed for quality in accordance with company requirements.
Range may include but is not limited to – water hardened, size, colour, contaminants.
- 2.6 The egg number is estimated in accordance with company requirements.
- 2.7 The milt is obtained and assessed in accordance with company requirements.
- 2.8 Fertilisation is carried out in accordance with company requirements.
- 2.9 The fertilised eggs are prepared for incubation in accordance with company requirements.
- 2.10 The success of fertilisation is assessed in accordance with company requirements.

Please note

Providers must be accredited by the Qualifications Authority, 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 the Qualifications Authority 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 sitostandards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.