

<b>Title</b>	<b>Describe, prepare for and carry out spawning of broodstock for an aquaculture species</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe the stock selection and maturation process and 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.
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<b>Classification</b>	Seafood > Aquaculture
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
  - Animal Products Act 1999;
  - Health and Safety at Work Act 2015;
  - and any subsequent amendments.
- 2 Definitions
 

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

*Holding facility* refers to the facilities used for holding the broodstock. This may include but is not limited to – ponds, raceways, or tanks.
- 3 This unit standard can be applied to all aquaculture species, excluding aquatic plants.
- 4 All evidence presented in this unit standard must be in accordance with company requirements.

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### Outcomes and performance criteria

#### Outcome 1

Describe the stock selection and maturation process and prepare the broodstock for spawning for an aquaculture species.

**Performance criteria**

- 1.1 Describe the processes used for stock selection.
- 1.2 Describe the assessment of maturation and the processes used for manipulation of the timing of maturation.
- 1.3 Set up the holding facility and prepare the broodstock for assessment.
- Range may include but is not limited to – confined, separated, anaesthetised.
- 1.4 Assess broodstock to determine the sex, status of maturation, and other relevant data.
- 1.5 Assess mature broodstock for ripeness to determine readiness for spawning.

**Outcome 2**

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

**Performance criteria**

- 2.1 Describe the importance of environmental parameters in relation to the success of spawning the species.
- 2.2 Describe the importance of each step in the spawning process.
- 2.3 Prepare the broodstock for stripping or spawning.
- Range may include but is not limited to – euthanasia, bleeding, chemical manipulation, anaesthesia.
- 2.4 Obtain the eggs from the female broodstock.
- Range may include but is not limited to – handling of eggs, avoiding contamination, stripping or spawning, surgical removal.
- 2.5 Assess eggs for quality.
- Range may include but is not limited to – water hardened, size, colour, contaminants.
- 2.6 Estimate the egg number.
- 2.7 Obtain and assess the milt.
- 2.8 Carry out fertilisation.
- 2.9 Prepare fertilised eggs for incubation.

## 2.10 Assess the success of fertilisation.

<b>Planned review date</b>	31 December 2028
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	16 December 2003	31 December 2024
Review	2	23 August 2005	31 December 2024
Review	3	25 February 2008	31 December 2024
Review	4	28 October 2021	N/A
Rollover	5	29 February 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0123
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Comments on this unit standard**

Please contact the Muka Tangata - People, Food and Fibre Workforce Development Council [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.