

<b>Title</b>	<b>Describe the purpose, benefits, principles and approaches of selective breeding in an aquaculture species</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to describe: the purpose, benefits, principles and approaches of a selective breeding programme 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

- 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.
- 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. Company requirements must include legislative requirements.
- 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 purpose and benefits of a selective breeding programme.

#### Performance criteria

- Describe the purpose of a selective breeding programme of a given aquaculture species.
 

Range	includes but is not limited to – uniformity, meat quality, shell quality, marketability, growth rate.
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- 1.2 Describe potential economic benefits that arise from a selective breeding programme for a given species.

Range includes but is not limited to – production cycles, robustness, survival, marketability.

## Outcome 2

Describe the selective breeding principles, approaches and processes for an aquaculture species.

### Performance criteria

- 2.1 Describe the principles of a selective breeding programme.

Range includes but is not limited to – traits, heritability, breeding values, crosses.

- 2.2 Describe an approach and process for conducting selective breeding for a selected aquaculture species.

Range includes but is not limited to – families, traits, heritability, breeding values, selections, crosses, spawning, fertilisation, grow out, quantification, broodstock.

<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	21 May 2008	31 December 2024
Review	2	28 October 2021	N/A
Rollover	3	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.