

<b>Title</b>	<b>Demonstrate knowledge of the biology of fin fish</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This unit standard is for people who require an understanding of fin fish, in a seafood industry context.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of: the habitat, distribution, and features of a fin fish species; anatomical features of the fin fish species and determine the sex of the fin fish species; the feeding, reproduction and life cycle of the fin fish species; the factors that influence growth of the fin fish species; and abnormal features and/or behaviours that indicate potential fin fish health issues.</p>
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<b>Classification</b>	Seafood > Aquaculture
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<b>Available grade</b>	Achieved
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### Guidance Information

#### Assessment

Evidence for the same species of fin fish is required for each outcome.

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### Outcomes and performance criteria

#### Outcomes 1

Demonstrate knowledge of the habitat, distribution, and features of fin fish species and its habitat.

#### Performance criteria

1.1 Identify the names of fin fish species.

Range common and scientific names;  
may include Māori name where appropriate.

1.2 Describe the habitat and distribution around New Zealand of the species.

Range freshwater or seawater, depth and location, relative to season.

1.3 Describe the distinguishing features of the fin fish species.

Range may include but is not limited to – size, shape, colour, fins; evidence of four features is required.

## Outcome 2

Demonstrate knowledge of anatomical features and determine the sex of the fin fish species.

Range anatomical features include - gills, dorsal and pectoral fins, vent, lateral line, gut, pyloric caeca, heart, liver, gonads, kidney, swim bladder, scales, brain.

### Performance criteria

2.1 Locate, and identify the anatomical features

2.2 Describe the function of each of the anatomical features.

2.3 Determine the sex of the species.

## Outcome 3

Demonstrate knowledge of the feeding, reproduction and life cycle of the fin fish species.

### Performance criteria

3.1 Describe the stages of the life cycle of the fin fish and what occurs at each stage.

3.2 Describe the feeding method and food source at each life cycle stage.

3.3 Describe what occurs at each stage of the reproductive cycle.

Range gonad development, natural triggers for spawning, internal and external features of maturation, spawning cycle.

## Outcome 4

Demonstrate knowledge of factors that influence the growth of a fin fish species.

Range may include but is not limited to – water quality, weather patterns, food type, food availability, water flow, predators, growing density, stress of handling; evidence of four factors is required.

### Performance criteria

4.1 Describe the impact of each factor on the growth of the fin fish species.

4.2 Describe the optimum growth conditions for each factor.

**Outcome 5**

Demonstrate knowledge of abnormal features and/or behaviours that indicate potential fin fish health issues.

**Performance criteria**

5.1 Describe abnormal features and/or behaviours that indicate a potential health issue with the fin fish.

Range abnormal behaviours may include but are not limited to – swimming, schooling, feeding;  
abnormal features may include but are not limited to – deformities, colouration, lesions, fungal growth;  
evidence of two abnormal behaviours and two abnormal features is required.

5.2 Describe the action to take if abnormal features and/or behaviours are identified in the fin fish.

5.3 Describe the importance of ensuring this action is taken.

<b>Planned review date</b>	31 December 2023
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	21 March 2003	31 December 2019
Review	2	23 August 2005	31 December 2019
Review	3	18 December 2009	31 December 2019
Review	4	1 November 2018	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 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.