

Title	Demonstrate knowledge of the biology of oysters		
Level	3	Credits	5

Purpose	<p>This unit standard is for people who require knowledge of the oyster, in a seafood industry context.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of, the features, habitat, and geographical locations of oyster species found in New Zealand; the anatomical features of an oyster; the feeding, reproduction and life cycle of the oyster species; the factors that impact on the growth of the oyster species and abnormal features and/or behaviours that could indicate potential oyster health issues.</p>
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Classification	Seafood > Aquaculture
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Available grade	Achieved
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Guidance Information

Definition

Oyster species referred to in this unit standard are the Pacific oyster, New Zealand rock oyster, and the dredge oyster, of which the Maori name for oysters is tio.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the features, habitat, and geographical locations of oyster species found in New Zealand.

Range two of – Pacific oyster, NZ rock oyster, dredge oyster.

Performance criteria

1.1 Identify the scientific name of the oyster species.

1.2 Describe the distinguishing features of each oyster species.

Range evidence of two features is required.

1.3 Describe the habitat of each oyster species.

Range depth in sub-tidal, height in inter-tidal range, tolerance to low salinity.

1.4 Describe the geographical location of each oyster species.

Outcome 2

Demonstrate knowledge of the anatomical features of an oyster.

Range left and right valves, hinge, mantle, gills; adductor muscle – quick and catch; labial palps, mouth, stomach, digestive gland, anus, gonad, heart, sense organs.

Performance criteria

2.1 Locate and identify the anatomical features of an oyster.

2.2 Describe the function of each anatomical feature.

Outcome 3

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

Performance criteria

3.1 Describe the stages of the life cycle of the oyster species 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.

Outcome 4

Demonstrate knowledge of the factors that impact on the growth of the oyster species.

Performance criteria

4.1 Describe the methods of measuring the growth of the oyster.

Range two methods.

4.2 Describe factors that can affect the growth, and the impact of each factor on the growth of the oyster species.

Range growth factors may include but are not limited to – water temperature, water quality, food quality, food availability, oyster age, stress;
evidence of at least four factors is required.

Outcome 5

Demonstrate knowledge of abnormal features and/or behaviours that could indicate potential oyster health issues.

Performance criteria

5.1 Describe abnormal features and/or behaviours that could indicate a potential health issue with the oyster species.

Range evidence of five abnormal features and/or behaviours is required.

5.2 Describe the action to take if abnormal features and/or behaviours are identified and the reasons why the action is important.

Planned review date	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 May 1999	31 December 2012
Review	2	25 February 2003	31 December 2012
Review	3	24 August 2006	31 December 2012
Review	4	17 June 2011	31 December 2019
Review	5	1 November 2018	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.