

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

Purpose	<p>This unit standard is for people who require a knowledge of the abalone 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 New Zealand abalone species; the anatomical features of an abalone; the feeding, reproduction and life cycle of an abalone; the factors that impact on the growth of an abalone; and abnormal features and/or behaviours that could indicate potential abalone health issues.</p>
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Classification	Seafood > Aquaculture
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Available grade	Achieved
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Guidance Information

Definition

Abalone species referred to in this unit standard are the black foot, yellow foot, and white foot, of which the Maori name is pāua.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the features, habitat, and geographical locations of New Zealand abalone species.

Range three species of abalone – black foot, yellow foot, white foot.

Performance criteria

- 1.1 Identify the scientific names of each species.
- 1.2 Describe the distinguishing features of each species.

Range shell, meat colour, size.
- 1.3 Describe the habitat of each species.
- 1.4 Describe the geographical location of each species.

Outcome 2

Demonstrate knowledge of the anatomical features of an abalone.

Performance criteria

2.1 Locate and identify the anatomical features of the abalone.

Range rasp (radula), gonad, foot, mantle, liver, respiratory pores, gills, head (cephalic) tentacles, skirt, skirt tentacles, eyes.

2.2 Describe the function of each anatomical feature.

Range rasp (radula), gonad, foot, mantle, liver, respiratory pores, gills, head (cephalic) tentacles, skirt, skirt tentacles, eyes.

2.3 Determine the sex of the abalone.

Outcome 3

Demonstrate knowledge of the feeding, reproduction and life cycle of an abalone.

Performance criteria

3.1 Describe the stages of the life cycle of the abalone, 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 an abalone.

Range evidence of four factors is required.

Performance criteria

4.1 Identify factors that can affect abalone growth rate and the impact of each factor.

Outcome 5

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

Performance criteria

- 5.1 Describe abnormal features and/or behaviours that indicate a potential health issue with the abalone.
- 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 in the abalone.
- 5.3 Describe the importance of ensuring this action is taken.

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	28 January 2000	31 December 2019
Review	2	25 February 2003	31 December 2019
Review	3	24 August 2008	31 December 2019
Review	4	12 December 2008	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 at standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.