

Title	Demonstrate knowledge of the biology of a species of aquatic Crustacea		
Level	3	Credits	5

Purpose	<p>This unit standard is for people who require knowledge of crustacea, 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 selected crustacean species; anatomical features; feeding, reproduction, and life cycle; factors that impact on the growth; and abnormal features and/or behaviours that could indicate potential health issues for the selected crustacean species.</p>
----------------	---

Classification	Seafood > Aquaculture
-----------------------	-----------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Definition
Crustacean species refers to any aquatic species with an exoskeleton; examples include but are not limited to, rock lobster, paddle crab, freshwater crayfish (koura), prawn.
- 2 Assessment
 Evidence for the same crustacean species for each outcome is required.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the habitat, distribution, and features of a selected crustacean species and its natural habitat.

Performance criteria

- 1.1 Identify the name of the species.

Range	common, scientific; may include Māori name where appropriate.
-------	--
- 1.2 Describe the distinguishing features of the species in terms of appearance.

Range	includes but is not limited to – colour, size, shape.
-------	---

1.3 Describe the habitat and distribution of the species in New Zealand.

Outcome 2

Demonstrate knowledge of anatomical features of the selected crustacean species.

Performance criteria

2.1 Locate and identify the external anatomical features.

Range carapace, reproductive organs.

2.2 Locate and identify the internal anatomical features.

Range gills, feeding track, gut, anal track.

Outcome 3

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

Performance criteria

3.1 Describe the feeding method and food sources of the selected species.

3.2 Describe what occurs at each stage of the reproductive cycle of the selected species.

Range may include but is not limited to – embryo development, triggers for spawning;
evidence of two is required.

3.3 Describe what occurs and each stage of the life cycle of the selected species.

Outcome 4

Demonstrate knowledge of factors that impact on the growth of the selected crustacean species.

Range may include but is not limited to – water temperature, water quality, weather patterns, food availability, habitat, species age, stress;
evidence of four factors is required.

Performance criteria

4.1 Describe factors that can affect the growth of the selected species and the impact of each factor.

Outcome 5

Demonstrate knowledge of abnormal features and/or behaviours that could indicate potential health issues with the selected crustacean species.

Performance criteria

5.1 Describe abnormal features and/or behaviours that could indicate a potential health issue with the selected 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 this action is important.

Range evidence of two reasons is required.

Planned review date	31 December 2023
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 September 2003	31 December 2012
Review	2	24 August 2006	31 December 2012
Review	3	17 June 2011	31 December 2019
Review	4	1 November 2018	N/A

Consent and Moderation Requirements (CMR) reference	0123
--	------

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.