



The New Zealand Seafood Industry Council Ltd

Whakareī Ahumahi Kaimoana

Seafood ITO Assessment Guide Unit Standard 16340

Describe the biology of the New Zealand
Greenshell mussel (kutai, kuku)

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Disclaimer:

Every effort has been made to ensure assessment guides are up to date. It is recommended that you check the unit standard details on the NZQA website prior to delivery and assessment to ensure that you are using the latest version. This information can be found at www.nzqa.govt.nz

Section 1: Information for Assessors

Introduction

Assessment for this Unit standard must be carried out according to the policies and procedures described in the Seafood ITO Assessor Manual which is available from the Seafood ITO. Refer to the Seafood ITO Assessors Guide, “Steps to Good Practice Assessment”.

Your candidate may answer questions orally or in writing. Evidence provided for assessment must be consistent with company procedures and industry guidelines. Evidence provided for assessment must also cover any range statements specified. This assessment guide provides Assessors with an Evidence Collection Sheet in Section 2.

Assessor Criteria

To assess this unit standard, assessors must:

- Hold unit standard 16340 – Describe the biology of the New Zealand Greenshell mussel (kutai, kuku)
- Hold unit standard 4098 – Use standards to assess candidate performance

General Unit Standard Notes

- In the title of this unit standard ‘New Zealand Greenshell mussel’ refers to Greenshell™ mussels (kutai, kuku).

Element Range Statements

There are no element range statements for this unit standard.

Entry Information

Open.

Section 2: Evidence Collection Sheet

Trainee name:

Assessor name:

Element 1: Describe the Greenshell™ mussel (kutai, kuku).

Activity	Evidence needed	Notes
The description includes the scientific name of the Greenshell™ mussel (pc 1.1)	The description is correct and complete.	
The description includes the distinguishing features of the Greenshell™ mussel (pc 1.2)	The description is correct and complete, and evidence is required for three features.	
The description includes the habitat of the Greenshell™ mussel (pc 1.3)	The description is correct and complete.	
The description includes the geographical location of the Greenshell™ mussel (pc 1.4)	The description is correct and complete.	

Comments:

Signed:

Assessment Judgement: C / NYC

Date:

Assessor signature:

Trainee signature:

Level: 3 Credit: 5

Domain: Aquaculture

Version: 3

Trainee name:

Assessor name:

Element 2: Locate and identify the anatomical features of the Greenshell™ mussel.

Activity	Evidence needed	Notes
The exterior anatomical features of a Greenshell™ mussel are located and identified (pc 2.1)	Identification is correct and includes left and right shell, periostracum, byssus (beard)	
The interior anatomical features of a Greenshell™ mussel are located and identified (pc 2.2)	Identification is correct and includes, foot, gills, labial palps, adductor muscle, gut, gonad, mantle, sense organs.	
The description includes an outline of the function of each anatomical feature (pc 2.3)	Description is correct and complete and includes, left and right shell, periostracum, byssus (beard), foot, gills, labial palps, adductor muscle, gut, gonad, mantle.	
The sex of the Greenshell™ mussel is determined (pc 2.4)	Determination is correct.	

Comments:

Signed:

Assessment Judgement: C / NYC

Date:

Assessor signature:

Trainee signature:

Level: 3 Credit: 5

Domain: Aquaculture

Version: 3

Trainee name:

Assessor name:

Element 3: Describe the feeding, reproduction and life cycle of the Greenshell™ mussel.

Activity	Evidence needed	Notes
The description includes an outline of the stages of the life cycle of the Greenshell™ mussel (pc 3.1)	Description is correct and complete.	
The description includes an outline of the feeding method and food source at each life cycle stage (pc 3.2)	Description is correct and complete.	
The description includes an outline of the stages of the reproductive cycle (pc 3.3)	Description is correct and complete and includes gonad development, natural triggers for spawning.	

Comments:

Signed:

Assessment Judgement: C / NYC

Date:

Assessor signature:

Trainee signature:

Level: 3 Credit: 5

Domain: Aquaculture

Version: 3

Trainee name:

Assessor name:

Element 4: Describe the factors that impact on the growth of the Greenshell™ mussel.

Activity	Evidence needed	Notes
The description includes methods of measuring the growth of the Greenshell™ mussel (pc 4.1)	Description is correct and complete and includes two methods	
The description identifies factors that can affect the growth of the Greenshell™ mussel (pc 4.2)	Description is correct and complete. Growth factors may include but are not limited to water temperature, water quality, food quality, food availability, mussel age, stress; evidence is required for four factors.	
The description includes the impact of each factor on the growth of the Greenshell™ mussel (pc 4.3)	Description is correct and complete.	

Comments:

Signed:

Assessment Judgement: C / NYC

Date:

Assessor signature:

Trainee signature:

Level: 3 Credit: 5

Domain: Aquaculture

Version: 3

Trainee name:

Assessor name:

Element 5: Describe abnormal features and/or behaviours that could indicate potential Greenshell™ mussel health issues.

Activity	Evidence needed	Notes
The description outlines abnormal features and/or behaviours that could indicate a potential health issue with the Greenshell™ mussel (pc 5.1)	Description is correct and complete and includes five abnormal features and/or behaviours.	
The description includes the action to take if abnormal features and/or behaviours are identified (pc 5.2)	Description is correct and complete.	
The description includes the reasons why this action is important (pc 5.3)	Description is correct and complete, and includes two reasons.	

Comments:

Signed:

Assessment Judgement: C / NYC

Date:

Assessor signature:

Trainee signature: