

Field Agriculture, Forestry and Fisheries

Review of *Aquaculture* unit standards

Subfield	Domain	ID
Seafood	Aquaculture	5336-5340, 5342, 5344, 5355, 16333-16337, 16339, 16672, 16674, 18483, 18486, 18488-18490, 19772, 19775, 19848-19850, 20307, 20464-20467, 21948-21951, 21954, 23852-23858, 25307

The Primary ITO has completed the review of the unit standards listed above.

Date new versions published

October 2021

Planned review date

December 2026

Summary

Key industry stakeholders involved within the aquaculture industry who made up the External Working Group (EWG) met by Microsoft Teams between November 2020 to June 2021. Unit standards were reviewed, and changes recommended to ensure current industry requirements were met.

Consultation was carried out in June 2020 where consent to assess holders had the opportunity to give comment on the email sent asking for feedback to amendments.

There was no further feedback and the EWG was notified of their pending submission for registration.

Main changes

- Forty-four unit standards were reviewed and changes were made to meet specific industry requirements.
- Titles were updated for some unit standards to reflect unit content.
- Levels were increased for unit standards 16337, 23856 and 23857 from Level 2 to Level 3 to better reflect the complexity level of the standards.
- Credit values were updated for some unit standards to reflect adjustments in industry training needs and actual learning and assessment time required to achieve competency.
- Guidance information was updated where appropriate.
- Outcomes and performance criteria were updated where appropriate to better meet current industry requirements.
- Reviewed unit standards were moved to the current template.

The last date for assessment of superseded versions of Category B unit standards is 31 December 2024

Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Field	Agriculture, Forestry and Fisheries	2	Standards	16337, 23856, 23857	3
Domain	Aquaculture	2	Standards	16337, 23856, 23857	3

Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Agriculture, Forestry and Fisheries > Seafood > Aquaculture

ID	Title	Level	Credit	Review Category
5336	Harvest oysters (tio) grown on sticks from an inter-tidal oyster (tio) farm for sale Harvest oysters (tio) grown on sticks from an inter-tidal oyster (tio) farm	3	6 5	B
5337	De-clump, cull, and grade oysters (tio) from an oyster (tio) farm	3	5	B
5338	Lay out Pacific oyster (tio) spat sticks on an inter-tidal farm Lay out oyster (tio) spat on an inter-tidal farm	3	8 5	B
5339	Build an inter-tidal oyster (tio) farm to a specified design	3	12 10	B
5340	Operate and perform routine maintenance on load-shifting equipment used in oyster (tio) farming	3	6 5	B
5342	Culture and harvest single seed Pacific oysters (tio) Culture and harvest single seed oysters (tio)	3	10	B
5344	Operate an oyster (tio) barge on inner harbour limits Describe and operate an oyster (tio) barge on inner harbour limits	3	10	B
5355	Assist to dehydrate and wet store shellfish	3	5	B
16333	Carry out the hauling process on a mussel (kutai, kuku) vessel Describe and carry out the hauling process, and operate the davit and declumper on a mussel (kutai, kuku) vessel	3	15	B
16334	Carry out the seeding process on a mussel (kutai, kuku) farm Describe and carry out the seeding process on a mussel (kutai, kuku) farm	3	15 10	B
16335	Carry out the bagging process on a mussel (kutai, kuku) vessel Describe and carry out the bagging process on a mussel (kutai, kuku) vessel	3	10	B

ID	Title	Level	Credit	Review Category
16336	Carry out repair and maintenance work on a mussel (kutai, kuku) farm Describe and carry out repair and maintenance work on a mussel (kutai, kuku) farm	3	15 10	B
16337	Outline New Zealand Greenshell mussel (kutai, kuku) farming Describe New Zealand Greenshell mussel (kutai, kuku) farming	2 3	10	B
16339	Harvest, handle, bag, and transport shellfish products to maintain product quality Describe, harvest, handle, bag, and transport shellfish products to maintain product quality	3	10	B
16672	Outline Pacific oyster (tio) farming industry in New Zealand Describe Pacific oyster (tio) farming industry in New Zealand	3	10	B
16674	Describe the principles of aquatic ecology and relate to aquaculture	3	10	B
18483	Describe the feeding of farmed fin fish	3	10	B
18486	Describe and carry out a feed stock-take on a fin fish farm	3	5	B
18488	Determine spinner settings and interpret feeding data for finfish feeding Describe spinner setting and interpret feeding data for fin fish feeding	3	5	B
18489	Describe net systems and undertake net changes on a fin fish farm	3	10 5	B
18490	Count and classify mortalities on a fin fish farm	3	5	B
19772	Demonstrate an awareness of environmental best practice in the aquaculture industry Describe, and apply in the workplace, environmental best practice in the aquaculture industry	3	5	B
19775	Demonstrate knowledge of the use of ropes in the aquaculture industry Describe the use of ropes, and prepare and store rope for use in the aquaculture industry	3	10 5	B
19848	Carry out a biomass assessment of farmed fin fish Describe and carry out a biomass assessment of farmed fin fish	3	5	B
19849	Carry out net repairs on a fin fish farm	3	10 5	B
19850	Demonstrate knowledge of the handling of seals on a finfish farm Describe the handling of and take action to remove seals on a fin fish farm	3	7 10	B
20307	Describe protocols when working with Māori to seek consent for an aquaculture associated activity	3	10 5	B
20464	Prepare for and carry out spawning of broodstock for an aquaculture species Describe, prepare for and carry out spawning of broodstock for an aquaculture species	3	7 5	B

ID	Title	Level	Credit	Review Category
20465	Incubate fertilised eggs for aquaculture species Describe incubation procedures, egg requirements, and risks, and maintain fertilised eggs for aquaculture species	3	10 5	B
20466	Monitor and maintain the rearing of a freshwater fish species	3	5	B
20467	Harvest farmed fish Harvest farmed fin fish	3	5	B
21948	Describe automated feeding and use an automated system to feed a population of farmed fin fish	3	10	B
21949	Describe hand feeding and hand feed a population of farmed fin fish	3	10	B
21950	Describe and carry out zooplankton culture for use in the New Zealand aquaculture industry	3	10	B
21951	Describe triploiding in the New Zealand aquaculture industry	3	3 5	B
21954	Grade and count farmed fish Grade and count farmed fin fish	3	5	B
23852	Demonstrate knowledge of and carry out the preparation and load out of live fish Describe and carry out the preparation and load out of live fin fish	3	5	B
23853	Demonstrate knowledge of the transport of live fish and transport live fish Describe the transportation of live fin fish and transport live fin fish	3	5	B
23854	Demonstrate knowledge of the receipt of live fish and receive live fish Describe the receipt of live fin fish and receive live fin fish	3	3 5	B
23855	Demonstrate knowledge of preparing, transporting and receiving fish eggs, and prepare, transport and receive fish eggs Describe, prepare, transport and receive unfertilised and eyed fish eggs	3	5	B
23856	Describe fouling organisms and their control for an aquaculture operation	2 3	5	B
23857	Describe the harvesting of farmed fish and associated processes Describe the harvesting of farmed fin fish and associated processes	2 3	5	B
23858	Describe and carry out the crowding of farmed fish Describe and carry out the crowding of farmed fin fish	3	5	B
25307	Assess size distribution of fin fish and interpret data for an aquaculture facility	3	5	B