



QUEEN  
CHARLOTTE  
COLLEGE

Aquaculture Academy



In association with



# objectives

- understand principles and techniques of Aquaculture
- understand Biology of farmed organisms
- make the most of our marine environment
- develop informed opinions on issues relating to Aquaculture
- improve communication skills
- use appropriate equipment to collect and analyse data
- work cooperatively with other people

# opportunities

- participate in and plan research projects
- gain diving and boating and First Aid Certificate
- gain workplace experience
- visit research and farming sites
- achieve National Certificate Aquaculture
- be selected for scholarships and exchange trips

We are the descendants  
of the people of this region



Piripi is the mountain!  
**Waitohi is the river!**  
Arapaoa is the sacred island

# Queen Charlotte College Aquaculture Academy

# sponsors

- Schwass Family Trust - Crop proceeds & use of line space
- Port Mussel Co. - Seeding floating & harvesting crop
- Sealord Shellfish - processing crops
- Marlborough Mussel Co - proceeds from crop
- Aotearoa Seafoods/Whakatu Corp - donation & use of line space
- Southshore Marine - backbones, warps etc
- Southern Ocean Rope - culture rope
- Donaghys Ropes - culture rope
- Quality Equipment - culture rope
- Industrial Marines - floats
- Copac international - floats
- Pelorus moulders - floats
- Sanfords South Island - use of line space
- Gills concrete - anchor blocks
- McBride Boat Design - assist with barge design
- Rapidcat Boat Builders - assist with barge construction
- Oddies Marine - assist with purchasing of life jackets
- TNL - transport of requirements
- Windshear - student prize
- NZ King Salmon - salmon for dissection purposes
- Survey Nelson - surveying of barge
- Hydrallift Cranes - lift barge onto transporter
- Picton Earthworks - transport barge from Blenheim to Picton
- Gregory Engineering - supply motor frame for barge
- Resene Paints - supply paints for antifoul lay-up
- McManaway Marine - slipping & assist with antifoul lay-up
- Marlborough Marine - assist fitting up motor
- NZ Lotteries Commission - funding for purchase of motor
- NZ Marine Farming Assn - annual scholarship
- Port Marlborough - berth for barge

Following are the names of companies & organisations who have made their facilities available for Academy trips.

- Burkharts Fisheries Ltd
- Aotearoa Seafoods Ltd
- Ormond Aquaculture Ltd
- Sanford Havelock
- Cawthron Institute
- Marlborough Mussel Company
- NIWA
- Regal Salmon
- Mussell Farm



## Year 11

### Assessment

The course will offer a selection of unit standards and certificate courses in industry, boating, diving, first aid and work experience.

US	Title	Level	Credits
6915	Maintain personal boating safety in recreational craft	1	2
16340	Outline biology of green shell mussel	3	5
16337	Greenshell mussel framing & harvesting in NZ	2	10
16338	Greenshell mussel spat collection in NZ	2	4
3503	Participate as a team to complete routine tasks	1	2
497	Protect Health & Safety in the Work Place	1	1
2798	Demo knowledge of application and impact of IT	2	3
6402	Provide basic life support	1	1
6401	Provide basic first aid	2	1
6400	Manage first aid	3	2
4384	Scuba dive in open water to max depth 18m	3	3



## Year 12

Students may enter at this level without completing the Year 11 course.

The Year 12 course offers a broader understanding of New Zealand aquaculture with a focus on environmental awareness and sustainability.

US	Title	Level	Credits
6213*1	Use safe work practices in the seafood industry	2	5
16674	Describe the principles of aquatic ecology & relate to aquaculture	3	10
19772	Demonstrate an awareness of environmental best practices in the aquaculture industry	3	5
17254	Outline the abalone (paua) farming industry in New Zealand	2	10
16672	Outline the Pacific oyster (tio) farming industry in New Zealand	2	10
19851	Describe the biology of a fin fish	3	5
17253	Describe the biology of an abalone (paua)	3	5
16673	Describe the biology of oysters (tio)	3	5

The following unit standards may be offered to students who have already completed their diving training, either out of school or during the year 11 course.

US	Title	Level	Credits
4387	Perform diver rescues	4	3
4388	Complete night dives	3	1
4398	Complete deep dives to between 18 & 40 metres	4	2
4385	Navigate prescribed routes underwater	3	1
4393	Complete underwater search and recovery dives	3	2

\*1 The unit standard 6213 is a core requirement for the Level 2 Seafood with Aquaculture Certificate and needs to be undertaken within the aquaculture industry.

In addition to the unit standards, students will visit aquaculture industry facilities throughout Marlborough and participate in routine sampling of water and mussels at the college's research line in Shakespeare Bay.

All of the students at the Aquaculture Academy are enrolled on the QCC Gateway Programme



## Year 13

### Practical Aquaculture Course

This course will allow students who have already attained 20 or more credits at Level 3 Aquaculture to participate in this practical based programme.

There will be the opportunity for students to resit some unit standards not achieved during the Year 11 or Year 12 courses so they can achieve the National Certificate in Aquaculture (Level 2).

Students will make more use of the Academy's barge and undertake a practical research project related to New Zealand aquaculture. There will also be opportunities to gain work experience in the aquaculture industry.

Progression in diving and boating will be offered during the course of the year.



## Contacts

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