



# 11087NAT Diploma of Marine Habitat Conservation & Restoration

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# Course Overview

The Diploma in Marine Habitat Conservation and Restoration is designed for individuals seeking vocational outcomes, aiming to be a specialist in delivering environmental education through innovative approaches.

The course paves the way for diverse employment paths in marine conservation and restoration, addressing the needs of local industries and coastal ecosystems.

The course imparts specialised knowledge and skills in marine conservation management, emphasizing the development of long-term strategies for the preservation of blue carbon seascapes and traditional ecosystems of national importance.

On a global scale, the course underscores Australia's commitment to various UN Sustainable Development Goals:

- Goal 4: Ensure equal access to quality education
- Goal 8: Promote sustainable employment opportunities
- Goal 13: Take action to combat climate change and its impacts
- Goal 14: Sustainably use the oceans and marine resources



Envirotech Mentors: 15 Hours/week

Lectures: 5 Hours/week

Workplace project course work on the job industry training: 16 Hours/week



Online Support



Blended Mode



Paid/Unpaid Workplacement



Course Duration 58 Weeks



22 Units



Practical Components



# COURSE UNITS

## Core Units

- NAT11087001 Manage information about a coastal marine project
- NAT11087002 Design, present, and execute a conservation project
- NAT11087003 Design, present and execute a restoration project
- NAT11087004 Design and manage biodiversity on coastal structure
- NAT11087005 Use tools to carry out advanced tasks in marine conservation work
- NAT11087006 Plan and execute a benthic marine assessment

## Elective Units

- ACMWS501 Manage workplace health and safety processes
- BSBPMG538 Manage project stakeholder engagement
- NAT11087039 Plan steps to reduce the carbon footprint of a project
- NAT11087007 Manage information about a marine environmental assessment
- NAT11087008 Conduct a coastal resource assessment
- NAT11087009 Process and analyse environmental assessment data
- NAT11087016 Reduce marine pollution from a coastal source
- NAT11087012 Monitor and report coastal and marine water quality according to standards
- CUAFIM511 Source funding for projects
- NAT11087037 Report the carbon footprint of a project
- NAT11087038 Report the carbon offset from conservation/restoration
- NAT11087024 Plan and execute a mangrove conservation project
- NAT11087022 Plan and execute a coral nursery
- NAT11087023 Plan and execute a coral transplantation project
- NAT11087034 Design and carry out bivalve reef units
- LGACOR009 Manage grants



# Qualification Outcomes

This course provides students with a solid foundation to take leadership and engage the public and media relating to marine conservation and restoration. Students will learn to build skills related to securing and managing funding related to project planning and implementation.

They will have the competencies required to plan and manage conservation, restoration, and monitoring activities in a range of marine habitats.

## Micro-credentials

Micro-credentials are combinations of units of competency which link to a licence or regulatory requirement or defined industry need. This program offer specialised accredited skill sets from the program start date to advance our students quality employment options.

- Marine Environmental Assessment
- Marine and Coastal Environmental Monitoring
- Marine/Coastal Spatial
- Marine Pollution
- Kelp Forest and Seaweeds Specialised Skills
- Coral Specialised Skills
- Seagrass Specialised Skills
- Coastal Dunes Specialised Skills
- Shellfish Specialised Skills
- Blue Carbon Specialised Skills
- Marine Animal Rehabilitation Specialised Skills
- reeding and Propagation of Marine Animals Specialised Skills
- Marine and coastal project management
- Sustainable Sea Country Operation

# Marine Environmental Assessment

1. Assemble and deliver information towards a marine environmental assessment according to specifications.
2. Participate in a coastal resource assessment
3. Report and present an environmental assessment.



# Marine and Coastal Environmental Monitoring

1. Perform fish monitoring.
2. Monitor coastal and marine water quality according to standards.
3. Measure and monitor physical parameters of a coastal area.
4. Use a drone under supervision for coastal monitoring.

# Ecosystem Management

1. Conduct a site inspection for ecological restoration.
2. Supervise ecological restoration works.
3. Implement land and sea management practice.



# Marine Pollution

1. Reduce marine pollution from a coastal source.
2. Develop marine waste and sewage pollution management practices.
3. Reduce impact of and clean up localised solid marine pollution.

# Coral Specialised Skills

1. Install a coral nursery.
2. Install and maintain coral nubbins in a nursery.
3. Transplant coral nubbins from a nursery to a reef.



# Mangrove Specialised Skills

1. Implement a mangrove conservation project.
2. Implement a mangrove restoration project.
3. Maintain a mangrove nursery.

# Seagrass Specialised Skills

1. Implement a seagrass conservation project.
2. Implement a seagrass restoration project.



# Coastal Dunes Specialised Skills

1. Implement a coastal dunes conservation project.
2. Implement a coastal dunes restoration project.
3. Establish and maintain a nursery for coastal plants and transplant seedlings produced.

# Kelp Forest & Seaweeds Specialised Skills

1. Implement a kelp forest conservation project.
2. Implement a kelp forest restoration project.
3. Install a kelp nursery and ocean farm using marine permaculture principles.



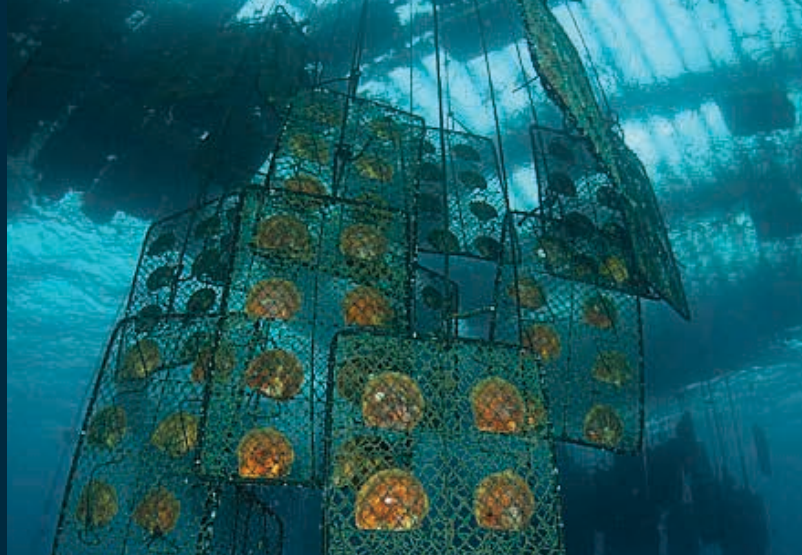
# Shellfish Specialised Skills

1. Implement a shellfish conservation project.
2. Implement a shellfish seeding project.
3. Install a shellfish reef unit.
4. Implement a pearl oyster seeding restoration project.



# Marine Animal Rehabilitation Specialised Skills

1. Participate in breeding and propagation of marine animals.
2. Operate a sea turtle hatchery.
3. Implement and maintain a pearl oyster hatchery and grow out.



# Stranding & Rehabilitation Specialised Skills

1. Respond to a marine mammal stranding event and rehabilitation.
2. Respond to a non-mammal marine animal stranding event and rehabilitation.
3. Respond to marine wildlife stranding.

# Skills and Knowledge Development

Upon completion of the course participants will be able to develop the capabilities to lead community sustainable resource management by:

- Supporting socioeconomic prosperity through creation of employment pathways and retention of local community members as upskilled workforce
- Development of social entrepreneurship within remote or isolated coastal communities
- Regeneration and reforestation of Land and Sea country areas of importance to Traditional owners
- Monitoring and maintenance of marine flora and fauna populations contributing to ecosystem services
- Increasing public awareness of, and accountability for, the guardianship of marine habitats of critical importance in carbon sequestration and their value
- Increasing public awareness of marine habitats and the importance of their conservation and their value.

## Entry Requirements

There are no entry requirements for this qualification.

The background of the entire page is a vibrant underwater scene featuring a coral reef. Numerous small, bright orange fish are swimming throughout the clear blue water. The coral structures are diverse, with some appearing as branching or brain-like formations. The lighting is bright, suggesting a shallow depth, and the overall color palette is dominated by blues, oranges, and browns.

# Career Outcomes

- Marine Environmental Project Manager
- Marine Pollution Response Coordinator
- Coastal Ecosystem Restoration Specialist
  - Marine Spatial Planning Consultant
  - Marine Research Specialist
  - Hatchery and Aquaculture Manager
- Sustainability and Carbon Management Specialist
  - Community Engagement Coordinator
  - Marine Mammal Rehabilitation Leader
- Trainer or Educator in Marine Conservation

## **Industry Employment Sectors**

- Government agencies managing parks and conservation zones
  - Environmental consulting firms
- NGOs focused on marine biodiversity and restoration
  - Research institution conducting marine ecological studies
  - Eco-tourism companies promoting sustainable interaction with marine habitats

# About Envirotech

Envirotech Education is an award-winning Australian Registered Training organization (RTO) endorsed by the Australian Skill Quality Authority (ASQA) for delivery of Vocational Education and Training (VET).

Envirotech VET accreditations are offered to: domestic, indigenous, international, and high school students.

Envirotech has in-house expert trainers, mentors, and business developers, who are dedicated to connecting students to an industry journey and will facilitate engagement in real business initiatives and sustainable projects.

## Our Marine Team



Melinda De Luna  
Co-CEO, Marine &  
Sustainability  
Trainer & Assessor



Dr. Steven Andrews  
Lead Trainer &  
Assessor



Sefano Katz  
Marine Expert  
Trainer & Assessor



Prof. Nadav Shashar  
Professor &  
Marine Expert



Iain Watt  
Academic  
Development  
TVET Trainer &  
Assessor



Glenda Cadigal  
Marine Expert  
Trainer & Assessor



Lyle John Cortes  
Marine Trainer &  
Assessor & Content  
Developer



Cherry Jalover-Par  
Marine & Sustainability  
Assessor & Content  
Developer



Noeme Fabiosa  
Marine Trainer &  
Assessor &  
Content Developer



Maricar Daquioag  
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Paul Vincent Petalcorin  
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Francia Marie Jose  
Marine Academic  
Support &  
Content Developer



Dr. Maria Fontes, PhD.  
Marine &  
Sustainability  
Trainer & Assessor



Cassia Duarte  
Marine &  
Sustainability  
Trainer & Assessor

## JANUARY

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1 - New Year's Day, 26 - Australia Day

## FEBRUARY

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3 - Good Friday 4 - Easter Saturday 5 - Easter Sunday 6 - Easter Monday 25 - Anzac Day

## MAY

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4 - Labour Day (QLD)

## JUNE

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8 - King's Birthday (National Except QLD & WA)

## JULY

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12 - Royal Queensland Show (QLD)

## SEPTEMBER

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05 - King's Birthday (QLD) & Labour Day (NSW)

## NOVEMBER

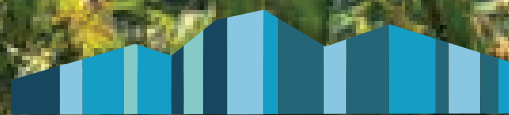
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## DECEMBER

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25 - Christmas Day 26 - Boxing Day





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E D U C A T I O N

**ENVIROTECH EDUCATION**

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