



Dual Qualifications

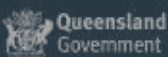
**AHC51120 Diploma Of
Conservation & Ecosystem
Management CRICOS 111629F
and
11087NAT Diploma of Marine
Habitat Conservation &
Restoration CRICOS 113610A**

➔ www.envirotech.edu.au

📍 @envirotecheducation

📘 Envirotech Education

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Course Overview

The Dual Qualification is an advanced program designed to equip individuals with the expertise to restore critical marine habitats, manage pollution, and implement sustainability initiatives while addressing land and ecosystem conservation. Integrating marine and terrestrial ecosystem management, the course covers Indigenous land stewardship, biodiversity conservation, wildlife protection, and pollution mitigation.

Students will develop the technical skills to lead impactful projects, solve complex environmental challenges, and engage communities in sustainable conservation efforts, preparing them for leadership roles in marine and terrestrial ecosystem restoration.

Globally, these dual certifications in Conservation & Ecosystem Management and Marine Habitat Conservation & Restoration accreditations highlights and strengthen Australia's commitment to, and support of several UN Sustainable Development Goals, namely:

- 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



58 weeks



24 Units



Practical Components

Course Structure

To achieve this dual qualification, competency must be demonstrated in the units of competency consisting of:

11087NAT Diploma of Marine Habitat Conservation & Restoration – 22 Units Total

- Six (6) Core units
- Sixteen (16) Elective units

AHC51120 Diploma Of Conservation & Ecosystem Management – 10 Units Total

- Ten (10) Elective units

Course Units

11087NAT Diploma of Marine Habitat Conservation and Restoration Units

NAT11087001 Manage information about a coastal marine project

NAT11087002 Design, present and execute a marine environmental conservation project

NAT11087003 Design, present and execute a marine environmental restoration project

NAT11087004 Design and manage biodiversity enhancement of coastal structures

NAT11087005 Use tools to carry out advanced tasks in marine conservation work

NAT11087006 Plan and execute a benthic marine assessment

AHCWHS501 Manage workplace health and safety processes

NAT11087009 Process and analyse data of an environmental assessment project

NAT11087010 Use drones for coastal monitoring

NAT11087022 Plan and execute a coral nursery

NAT11087023 Plan and execute a coral transplantation project

NAT11087037 Measure, analyse and report the carbon footprint of a project

NAT11087038 Measure, analyse and report the carbon offset created by an environmental Conservation or restoration project

NAT11087039 Plan steps to reduce the carbon footprint of a project

Shared units

NAT11087007 Manage information about a marine environmental assessment

NAT11087008 Conduct a coastal resource assessment

AHCOCM303 Follow Aboriginal and/or Torres Strait Islander cultural protocols

AHCCSW501* Survey and report on Aboriginal and/or Torres Strait Islander cultural sites

AHCECR502 Conduct biological surveys

AHCECR504 Manage implementation of an ecological restoration programs

AHCNRM509 Develop a coastal rehabilitation strategy

AHCNRM510 Develop water quality monitoring program

AHC501120 Diploma of Conservation and Ecosystem Management Units

AHCECR503 Design an ecological restoration project

AHCOCM504 Develop strategies for on Country Management

Qualification Outcomes

This course provides students with the skills and knowledge to take on leadership and specialist roles in environmental conservation, ecosystem management, and marine habitat restoration. These combined programs prepare individuals to:

- **Design and Implement Conservation Projects:** Plan initiatives to restore and protect coastal and marine ecosystems, addressing critical environmental challenges.
- **Conduct Habitat and Biodiversity Assessments:** Evaluate the health of ecosystems using advanced tools and techniques to monitor species, water quality, and habitat conditions.
- **Utilise Traditional and Modern Practices:** Integrate Indigenous ecological knowledge with contemporary scientific methods to create sustainable and culturally aligned management strategies.
- **Lead Teams and Supervise Work:** Manage and guide conservation and restoration teams, ensuring safety, efficiency, and compliance with environmental standards.
- **Mitigate Environmental Threats:** Address issues like marine pollution, invasive species, and land degradation through innovative solutions.
- **Support Sustainable Development:** Contribute to the creation of sustainable practices that balance ecological preservation with economic and community needs.

Skill Sets (Micro-Credentials)

Skill Sets 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 Operations
- AHCSS00117 Introduction to Conservation and Ecosystem Management Skill Set



Marine Environmental Assessment

- Manage information about a marine environmental assessment
- Conduct a coastal resource assessment
- Process and analyse data of an environmental assessment project
- Conduct biological surveys

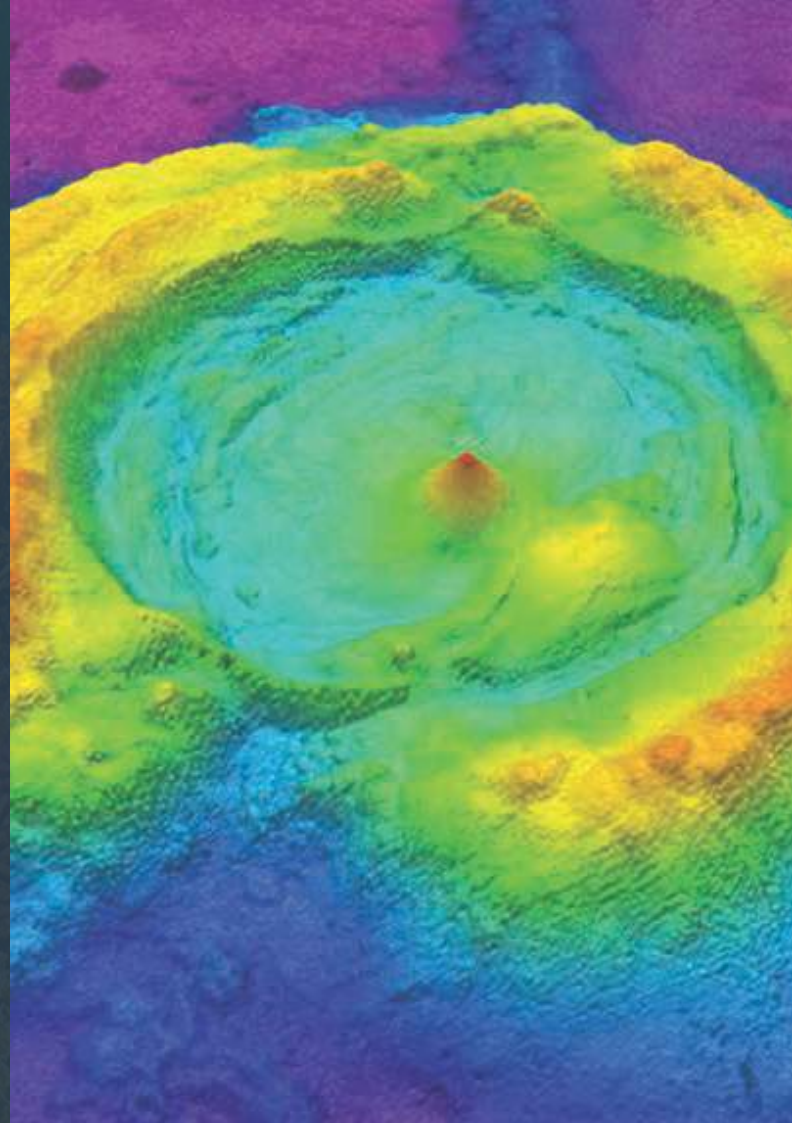


Marine and Coastal Environmental Monitoring

- Use drones for coastal monitoring
- Perform advanced fish monitoring
- Monitor and report coastal and marine water quality, according to standards
- Measure, monitor and report physical parameters of a coastal area
- Develop a water quality monitoring program

Marine/ Coastal Spatial

- Perform Marine Spatial Planning
- Use a participatory GIS Mapping in Marine Spatial Planning (MPS)
- Store and retrieve data
- Collect spatial and discrete environmental data
- Manipulate and analyse data within geographic information systems
- Apply GIS software to spatial problems
- Conduct complex spatial data analysis
- Prepare and present GIS data
- Source, collate and interpret spatial data



Marine Pollution

- Reduce marine pollution from a coastal source
- Respond to reduce impact and clean localised fuel marine pollution
- Respond to and reduce the impact and clean localised solid marine pollution
- Ensure compliance with pollution prevention requirements

Coral Specialised Program

- Plan and execute a coral nursery
- Plan and execute a coral transplantation project
- Perform restricted diving for scientific purposes



Mangrove Specialised Skills Program

- Plan and execute a mangrove conservation project
- Plan and execute a mangrove restoration project
- Plan and execute a mangrove nursery

Seagrass Specialised Skills Program

- Plan and execute a sea grass conservation project
- Plan and execute a seagrass restoration project



Coastal Dunes Specialised Skills Program

- Plan and execute a coastal sand dunes conservation project
- Plan and execute a coastal sand dunes restoration project
- Plan and execute a nursery for coastal plants

Kelp Forest & Seaweeds Specialised Skills Program

- Design a kelp forest conservation project
- Design a kelp forest restoration project
- Design a kelp nursery and ocean farm using marine permaculture principles



Shellfish Specialised Skills Program

- Plan and execute a shellfish conservation project
- Plan and execute a bivalve shellfish seeding project
- Design and carry out a set of bivalve reef units
- Maintain an oyster nursery
- Plan and execute a pearl oyster seeding restoration project

Marine Animal Rehabilitation Specialised Skills Program

- Plan and install anchoring devices in coastal waters
- Take part in marine mammal's rehabilitation
- Implement species population planning and management



Breeding and Propagation of Marine Animals Specialised Skills Program

- Perform breeding and propagation of marine animals
- Manage and oversee sea turtle hatchery operation
- Operate a sea cucumber hatchery
- Plan and execute a pearl oyster hatchery

Blue Carbon Specialised Skills Program

- Measure, analyse and report the carbon footprint of a project
- Measure, analyse and report the carbon offset created by an environmental conservation or conservation project
- Plan steps to reduce the carbon footprint of a project



AHCSS00117 Introduction to Conservation and Ecosystem Management Skill Set

- Perform basic ecological restoration works
- Recognise fauna
- Recognise plants

Skills and Knowledge Development

Upon completion of the course, participants will gain comprehensive expertise in marine conservation, ecosystem restoration, sustainable land and sea management, and community development.

Marine Conservation & Habitat Restoration

- Understanding ecological principles and dynamics of marine habitats, including coral reefs, seagrass meadows, mangroves, and kelp forests.
- Developing and maintaining nurseries for corals, mangroves, and other marine vegetation, implementing sustainable restoration strategies.
- Conducting marine biodiversity monitoring to assess ecosystem health, identify species, and track environmental changes.
- Implementing water quality analysis techniques to measure factors affecting marine environments, such as pollution and sedimentation.
- Responding to marine animal strandings, learning rescue and rehabilitation techniques.

Indigenous-Led Conservation & Cultural Site Management

- Integrating Indigenous Knowledge into marine habitat conservation and restoration through traditional ecological practices.
- Identifying, surveying, and reporting on Aboriginal cultural sites.
- Applying Indigenous cultural protocols in environmental management, including identifying appropriate community representatives.
- Developing strategies for land and sea management from an Indigenous perspective.

Land & Sea Sustainability Initiatives

- Regenerating and reforesting Land and Sea Country areas of cultural importance to Traditional Owners.
- Implementing natural and cultural resource management plans for long-term sustainability.
- Developing and implementing sustainable land use strategies to enhance ecological resilience in production landscapes.

Biosecurity, Wildlife & Ecosystem Management

- Developing pest monitoring and evaluation programs at local or regional scales.
- Managing and implementing biosecurity emergency control programs to protect native species and ecosystems.
- Preparing and executing fauna management plans to maintain balanced animal populations.
- Designing, implementing, and evaluating rehabilitation strategies for coastal and natural areas.

Community & Socioeconomic Development

- Supporting socioeconomic prosperity by creating employment pathways and upskilling local community members in conservation roles.
- Fostering social entrepreneurship within remote or isolated coastal communities.
- Increasing public awareness and accountability for the guardianship of marine habitats, particularly their role in carbon sequestration and ecosystem services.

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
- Ecosystem Restoration Specialists
- Park Ranger or Parks and Wildlife Manager
- Indigenous Land and Sea Management Officer
- Conservation Project Manager
- Environmental Consultant
- Natural Resource Manager

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



Vocational Industry Placement (VIP)

Mandatory Vocational Placement program designed to enrich students' educational experience through practical, real-world engagement.

- 40 weeks and requiring a commitment of 16 hours per week (Face-to-Face or online or combination of both)
- This program pairs students with an Industry Vocational Placement Host providing an invaluable opportunity to apply theoretical knowledge in a professional setting.
- Students have the flexibility to bring their own Vocational Placement Host (possible employers), allowing for a personalised experience that aligns with their career aspirations and interests.

The primary objectives of this placement are skills development, networking, and enhanced employability. Through hands-on experience, students will refine their professional skills, build meaningful industry connections, and significantly boost their job readiness, giving them a competitive edge in the job market.



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.

The college 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 Ecosystem Management and 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
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Roberto Lampayan
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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, 27 - Australia Day

FEBRUARY

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18 - Good Friday, 19 - Easter Saturday, 20 - Easter Sunday, 21 - Easter Monday, 25 - Anzac Day

MAY

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5 - Labour Day (QLD)

JUNE

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

JULY

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13 - Royal Queensland Show (QLD)

SEPTEMBER

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OCTOBER

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

NOVEMBER

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DECEMBER

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25 - Christmas Day, 26 - Boxing Day



Public Holiday

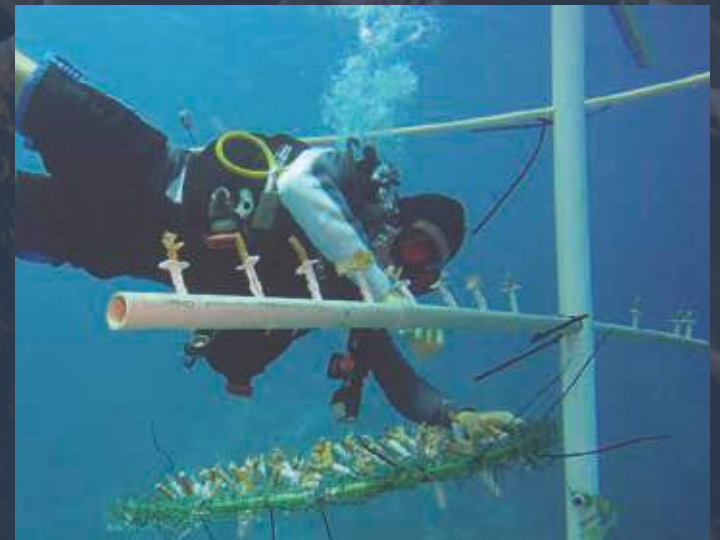


Term Break



Intake Date







ENVIROTECH EDUCATION

ENVIROTECH EDUCATION PTY LTD

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Northern Rivers Marine Services

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Sydney Institute of Marine Science

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