

PROSPECTUS



VOCATIONAL TECHNOLOGY COURSES

PROSPECTUS

OCEAN UNIVERSITY OF SRI LANKA

***MINISTRY OF EDUCATION, HIGHER EDUCATION AND VOCATIONAL
EDUCATION***

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INTRODUCTION OF OCEAN UNIVERSITY

University Vision

“To Provide Innovative Solutions for Marine, Maritime and Fisheries Sectors”

University Mission

“To be the Center of Excellence in Marine and Fisheries Education in the Region”

We adhere to the following values in everything we do:

- **Integrity:** Upholding strong moral and ethical standards
- **Quality:** Maintaining consistent, high-quality practices.
- **Excellence:** Striving for the best in everything we do.
- **Sustainability:** Ensuring the wellbeing of all stakeholders in line with 3BL principles



JOIN OUR TRAINING PROGRAMS AT OCEAN UNIVERSITY OF SRI LANKA

The Ocean University of Sri Lanka (OCUSL) was established in 2014 by parliament Act No. 31 of 2014 with an aim of developing the manpower requirement to achieve the economic benefits of Marine, Maritime, Fisheries & Aquaculture and allied technologies. Ocean University unlike other conventional universities in the island is conducting courses of undergraduate, diplomas and certificates directly related to the above-mentioned sectors. The two academic pathways have been designed to cater the requirement of highly specialized human resources both in academic and skilled sectors with an aim of expanding the Ocean Economy.



The government of Sri Lanka has recognized the importance of the blue economy especially in the areas of Fisheries, Aquaculture development and value additions, Marine Engineering, Port and Shipping, boat building while maintaining a sustainable environment. To achieve the targets of National Economic Development Strategies of the Government, Ocean University's plans to increase the contribution of manpower production of the above areas.

This prospectus guides you only the vocational training courses available from the eight (08) vocational training centers situated around the coastal belt at Panadura, Colombo, Negombo, Jaffna, Trincomalee, Batticaloa, Tangalle and Galle. ***We will be able to design and carryout any training courses relevant to marine, maritime and fisheries sector on demand for private or government parties.***

Ocean University additionally offers degree programs in marine, maritime, fisheries, and allied technologies. Detailed information on these programs can be obtained from the official university website.

www.ocu.ac.lk

MESSAGE FROM THE VICE CHANCELLOR

Senior Prof. Nalin Ratnayake, Ocean University of Sri Lanka

The future prosperity of Sri Lanka depends on how well we control our geographical location as a sea hub and utilizes the marine resources effectively in the surrounding sea. Our location in the Indian Ocean has shaped our history over a long period of time and will continue to do so in the future. New consumer markets are emerging all across Asia and the major economies of China, Japan and India contribute to the growth of the maritime activities in the busy east-west shipping route which is only a few nautical miles south of the island. On this route, more than 150,000 ships annually carry two-thirds of the world's oil supply and a half of total ocean freight.



Furthermore, Sri Lanka has the jurisdiction for its seabed resources up to 200 nautical miles and we have claimed beyond 200 nautical miles under the United Nations Convention of the Law of Sea since geographic conditions support that our river sediments reached far beyond. Thus, Sri Lanka's situation in the nautical corridor between the East and West and its natural resources in the surrounding sea has become important for the future development of the country. We as a nation need to reposition our country to maximize these advantages. To fully tap this potential, Sri Lanka needs to develop its human resources and the Ocean University of Sri Lanka must equip itself to cater this important task. At present, the University offers marine, maritime and fisheries related BSc degree programs, NVQ courses including Higher Diplomas, Diplomas, certificates, Non NVQ courses, STCW courses and on demand mobile short courses in the fields of Engineering, Logistics and Transport and Sciences. Further, it offers skill sector NVQ level diplomas and certificates courses in the same areas from its network of regional centers.

This prospectus is a collective ambition of all the members of the Ocean University to prioritize and organize a productive path to serve the human resource development of marine, maritime and fisheries sector and thus to uplift the lives of the people in the sector which in turn leads to the economic growth of the country.

Best wishes for your studies at Ocean University!

MESSAGE FROM THE DIRECTOR VOCATIONAL TECHNOLOGY

L.A.K. Chandana Kumara, Ocean University of Sri Lanka

It is with great pleasure that I present this Prospectus of the Vocational Training Division (VTD) of the Ocean University of Sri Lanka. This Prospectus has been prepared to provide prospective trainees with a clear understanding of the wide range of vocational and technical training opportunities offered by the University in support of national development and the blue economy.

The Vocational Training Division plays a vital role in fulfilling the mandate of the Ocean University of Sri Lanka by delivering competency-based, industry-oriented training programs aligned with the National Vocational Qualification (NVQ) framework and relevant regulatory standards. Through our regional centers strategically located along the coastal belt of the island, we ensure accessibility to quality vocational education for youth and professionals, particularly those from coastal and fisheries-related communities.

Our division offers Higher National Diplomas, Diplomas, Certificate courses, and specialized short-term programs in areas such as fisheries, aquaculture, marine engineering, nautical and maritime studies, diving, lifeguarding, and other emerging technical disciplines. All programs are developed and continuously reviewed in collaboration with industry experts, government agencies, and other stakeholders to ensure their relevance, quality, and responsiveness to labor market needs.

A strong emphasis is placed on practical training, hands-on learning, and industry exposure. Through partnerships with public and private sector organizations, we facilitate field training, internships, on-the-job training, and employment opportunities for our trainees. Our committed academic and non-academic staff, together with well-equipped training facilities, strive to create a learner-centered environment that promotes professionalism, discipline, and lifelong learning.

I warmly invite prospective trainees to carefully study this Prospectus and select a program that aligns with their career goals and aspirations. By joining the Vocational Training Division of the Ocean University of Sri Lanka, you will be taking a meaningful step toward a productive and rewarding career while contributing to the sustainable development of our nation.

I wish all prospective trainees every success and look forward to welcoming you to the Vocational Training Division of the Ocean University of Sri Lanka



REGULATORY BODIES

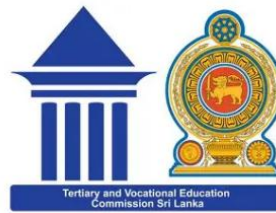
The **Vocational Training Division** of the Ocean University of Sri Lanka (OCUSL) serves as the university's technical arm, specifically designed to bridge the gap between academic theory and the practical skills required for the "Blue Economy."

Unlike the Higher Education division, which follows the University Grants Commission (UGC) guidelines, the Vocational Training Division is governed and monitored by a network of specialized national and international bodies to ensure its certifications (NVQ Levels 3 through 6) meet global industrial standards.

These organizations provide the legal and educational framework for the vocational sector:

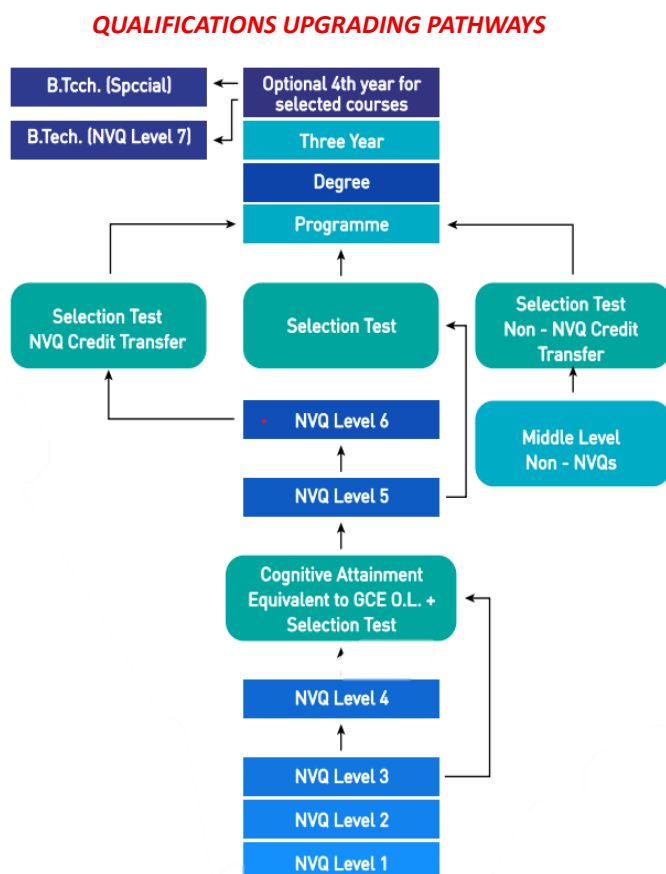
- **Tertiary and Vocational Education Commission (TVEC):** The primary regulatory body. It accredits all vocational curricula and monitors the quality of training delivery across all regional centers. TVEC ensures that every certificate issued is a recognized **National Vocational Qualification (NVQ)**.
- **Ministry of Education (Vocational Education Sector):** Provides policy direction and administrative oversight. The university's Board of Governors includes senior representatives from this ministry to align training with national development goals.
- **National Apprentice and Industrial Training Authority (NAITA):** Often collaborates with the university to facilitate industrial training and apprenticeships for vocational students
- **Merchant Shipping Secretariat (MSS):** For maritime-specific vocational courses (like pre-sea training), the MSS monitors compliance with international **STCW** (Standards of Training, Certification, and Watchkeeping) requirements.
- **The Department of Management Services (DMS),** under the Ministry of Finance (General Treasury), is the central authority responsible for planning, approving, and controlling the public sector workforce in Sri Lanka. (OUSL) operates under direct DMS regulation, especially in relation to its Vocational Training Division. The DMS ensures that all academic, technical, and support staff positions at OUSL are legally created, properly qualified, and funded by the Treasury. While TVEC oversees curriculum standards and training quality, the DMS governs the human resource system.
- **ISO Certification and International Quality Assurance**
The Vocational Training Division maintains ISO 9001:2015 certification to ensure an internationally recognized Quality Management System. Its training and administrative processes are regularly monitored and audited by international certification bodies, such as Bureau Veritas, to maintain quality standards and global competitiveness.

- **Board of Governors (Internal):** The university's highest internal decision-making body, chaired by the Vice-Chancellor. It includes heads of **NAITA** (National Apprentice and Industrial Training Authority) and the **Vocational Training Authority (VTA)** to ensure the division stays integrated with the national TVET (Technical and Vocational Education and Training) system



What is NVQSL?

The National Vocational Qualifications of Sri Lanka (NVQSL) is a nationally standardized and internationally recognized qualification framework designed to strengthen technical and vocational education in the country. NVQSL is built upon National Competency Standards (NCS) developed in consultation with industry stakeholders, ensuring that all programs meet current industry requirements and workforce expectations.



Source: NVQ Operational Manual 2021

The framework integrates technical, vocational, and higher education pathways, enabling students to progress through clearly defined competency levels. All NVQ courses conducted by the Ocean University of Sri Lanka (OCUSL) are delivered through a Competency-Based Training (CBT) curriculum, which emphasizes practical skills, hands-on learning, and measurable performance outcomes.

Quality assurance for these programs is maintained by the Tertiary and Vocational Education Commission (TVEC), which grants accreditation to training centers and courses after evaluating facilities, systems, procedures, and training materials against national standards.

As part of the accreditation process, all centers are required to implement Quality Improvement Systems (QIS) and Quality Management Systems (QMS) to ensure continuous enhancement of training delivery.

This structured progression allows learners to advance from basic skill development to higher professional and supervisory competencies, supporting both employment and further academic opportunities.

NVQ Levels

The National Vocational Qualification (NVQ) framework consists of seven levels, ranging from Level 1 to Level 7.

- **NVQ Levels 1 to 4**

NVQ Levels 1 to 4 are **Certificate-level** qualifications. Upon successful completion of all required units for a particular level, students become eligible to receive the **National Certificate** corresponding to that level.

- **NVQ Levels 5 & 6**

NVQ Levels 5 and 6 are **Diploma-level** qualifications. Students are awarded the **National Diploma** (Level 5) and **Higher National Diploma** (Level 6) once they earn the required credits specified in the relevant competency standards.

- **NVQ Level 7**

NVQ Level 7 is represent the **degree-level** qualifications. Students who successfully complete the required credits specified in the degree program are awarded the **B. Tech Degree**.

NVQ Certificates from TVEC

Upon successful completion of any NVQ course offered by the Ocean University of Sri Lanka, students will be guided to obtain the relevant **NVQ Level Certificate** from the **Tertiary and Vocational Education Commission (TVEC)** of Sri Lanka.

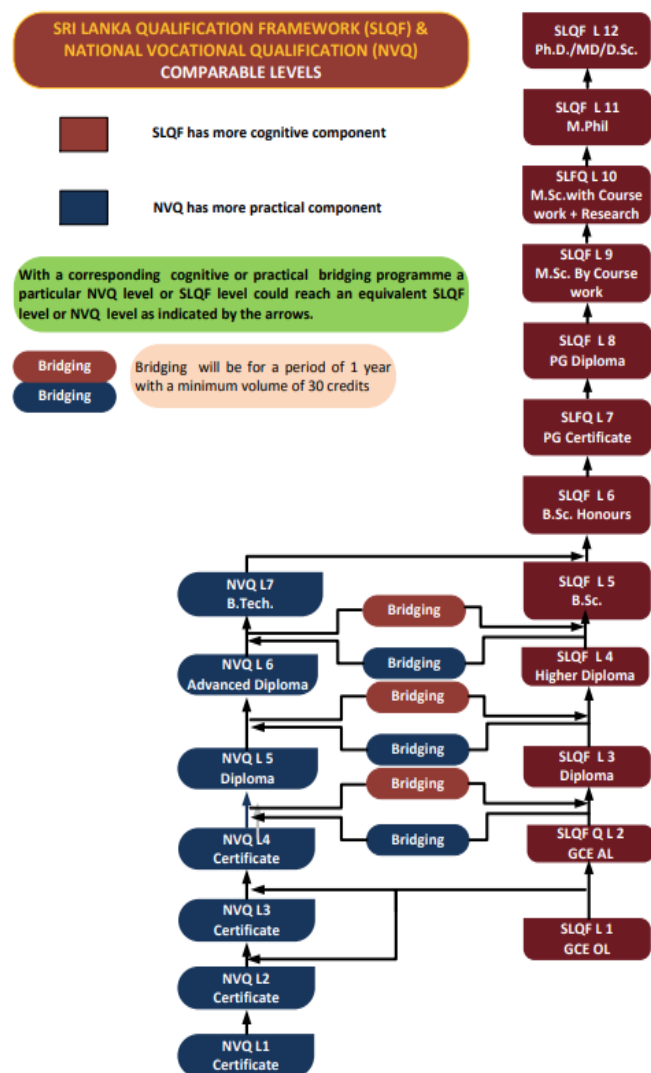
What is SLQF?

The Sri Lanka Qualification Framework (SLQF)

is designed to enhance the quality of higher education and training by recognizing and accrediting qualifications offered by various institutions. It serves as a guide to interpret different qualifications and assess their relative value.

The SLQF acknowledges the learning outcomes achieved after formal secondary education. It also integrates the National, Vocational Qualification Framework (NVQF) developed by the Tertiary and Vocational Education Commission (TVEC).

Through this integration, the SLQF establishes flexible learning pathways that facilitate lateral mobility between the vocational and higher education sectors, supporting the recognition of prior learning and enabling credit transfers.



SLQF 2015, UGC

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**OCEAN
UNIVERSITY**

Vocational Technology Division

HIGHER NATIONAL DIPLOMA COURSES



HIGHER NATIONAL DIPLOMA IN AQUACULTURE AND AQUATIC RESOURCES MANAGEMENT (NVQ LEVEL 6)



This program equips students with advanced theoretical and practical skills essential for higher-level work in aquaculture and aquatic resource management. Key areas of study include ornamental fish and plant culture, aquatic genetics, nutrition, induced breeding, pathology, aquaculture engineering, post-harvest technology, feed formulation, and a research-based project.

With the rapid growth of the aquaculture industry, there is a rising demand for skilled professionals who can support advanced farming operations, breeding initiatives, aquatic health management, and technological advancements. NVQ Level 6 graduates are well-prepared for supervisory, managerial, and technical leadership roles both locally and internationally.

The program aims to build advanced competencies in aquaculture production and management, strengthen technical skills in genetics, breeding, nutrition, and aquatic health, enhance research and scientific writing abilities, develop managerial and leadership capabilities, and prepare professionals to support sustainable aquaculture development.

Course Structure

NVQ Level	Course Type	Mode	Course Duration	OJT Duration	Credit Policy	Medium
NVQ Level 6	Full-time	Physical	12 Months	6 Months	120	English

Semester 1

Module Code	Module	Type	Notional Hours	Lectures/Tutorials	Practical/Design/Site Visits	Self-Study
B05T002M20	Ornamental Fish and Plant Culture	C	100	40	50	10
B05T002M21	Invertebrate Culture	C	25	15	5	5
B05T002M22	Live Feed Culture	C	75	30	35	10
B05T002M23	Fish Genetics	C	75	30	35	10
B05T002M24	Induced Breeding	C	75	30	35	10
B05T002M25	Nutrition	C	75	30	35	10
B05T002M26	Post-Harvesting and Processing Technology	C	100	40	50	10
B05T002M27	Pond Engineering	C	75	30	35	10
B05T002M28	Aquaculture Economics	C	50	20	20	10
B05T002M29	Scientific Writing	C	50	20	20	10
EMTM04	Problem Solving and Decision Making	C	50	30	15	5
Total Hours			750	315	335	100

Semester 2

Module Code	Module	Type	Notional Hours	Lectures/Tutorials	Practical/Design/Site Visits	Self-Study
B05T002M20	Ornamental Fish and Plant Culture	C	100	40	50	10
B05T002M21	Invertebrate Culture	C	25	15	5	5
B05T002M22	Live Feed Culture	C	75	30	35	10
B05T002M23	Fish Genetics	C	75	30	35	10
B05T002M24	Induced Breeding	C	75	30	35	10
B05T002M25	Nutrition	C	75	30	35	10
B05T002M26	Post-Harvesting and Processing Technology	C	100	40	50	10
B05T002M27	Pond Engineering	C	75	30	35	10
B05T002M28	Aquaculture Economics	C	50	20	20	10
B05T002M29	Scientific Writing	C	50	20	20	10
EMTM04	Problem Solving and Decision Making	C	50	30	15	5
Total Hours			750	315	335	100

C – Compulsory

*Note: Students are required to complete six months of on-the-job training after successfully completing the one-year academic program.

➤ **Entry Requirements**

- Three passes at the G.C.E. (A/L) Examination in the Bio Science or Bio-Systems Technology stream (SLQF Level 2), OR
- NVQ Level 5 qualification in a relevant field, OR
- SLQF Level 3 Diploma or a higher equivalent qualification in a related field

- NVQ Level 4 – Aquaculture Technician qualification
- Any other equivalent qualification recognized by the institute may be considered for admission

➤ **Assessment Method**

The program uses a combination of formative and summative assessments to evaluate students' knowledge, skills, and professional competencies.

➤ **Career Opportunities**

- Aquaculture Farm Manager
- Hatchery Manager
- Senior Aquaculture Officer
- Research Assistant
- Production Supervisor
- Aquaculture Consultant

➤ **Pathways for Higher Studies**

- Bachelor's degrees (local and international)
- Specialized aquaculture training programs

➤ **Training Locations (Regional Centers):**

Negombo
Mattakkuliya
Panadura
Galle

Tangalle
Jaffna
Batticaloa
Trincomalee

HIGHER NATIONAL DIPLOMA IN SEAFOOD TECHNOLOGY (NVQ LEVEL 06)



The Higher National Diploma in Seafood Technology (NVQ Level 6) is a professional qualification designed to develop skilled employees for the fisheries and marine sector. Building on the competencies gained at NVQ Level 5, this program provides deeper theoretical knowledge and enhanced practical expertise in seafood science, advanced processing technologies, food safety management, sustainability, and industry innovation.

Students will engage in in-depth laboratory work, industrial training, and project-based learning that emphasize problem-solving, research skills, and decision-making within real industry environments. This program provides students with advanced knowledge and practical competencies in seafood processing, quality assurance, value addition, and industry management. By completing this diploma, students will be qualified to receive NVQ Level 06 certification awarded by the Tertiary and Vocational Education Commission (TVEC) of Sri Lanka, contributing to the growth and sustainability of the national fisheries sector.

Course Structure

NVQ Level	Course type	Mode	Course duration		Credit Policy	Medium
			Academic	OJT		
Level 6	Full time	Physical	12 months	06 months	120 credits	English

Module Structure

The National Diploma in Seafood Technology (NVQ Level 6) offers an advanced, industry-focused curriculum that integrates technical specialization with essential employability skills. The program includes both Core Technical Units and Employability Units, all of which must be completed to earn the qualification.

Semester 1

Module Code	Module	Type	Notional hours	Theory hours	practical hours/ field visits	Self-study
D15T003M15	Advanced Food Microbiology	C	100	40	40	20
D15T003M16	Advanced Technologies in Food Packaging	C	125	40	50	35
D15T003M17	Fish and aquatic product Processing Technology – II	C	125	60	50	15
D15T003M18	Control of raw material quality and Safety	C	100	45	30	25
D15T003M19	Waste management in seafood industry	C	125	60	50	15
D15T003M20	Introduction to research methodologies and scientific communication	C	100	50	30	20
D15T003M21	Business Management for Aquatic products	C	100	60	20	20
D15T003M22	Introduction to Management and Organization	C	50	30	10	10
EMTM04	Problem solving and decision making	C	50	30	15	05
Total Hours			875	415	295	165

Semester 2

Module Code	Module	Type	Notional hours	Lectures /Tutorials	practical /Design/ site visits	Self-study
D15T003M23	New Product development	C	200	20	80	100
D15T003M24	Mini Research project	C	250	00	00	250
D15T003M25	Sales and Marketing Management of Fish and Fishery products	C	100	60	20	20
EMTM05	Teamwork and Leadership	C	50	30	15	05
EMTM06	Creating and maintaining a learning culture at workplace	C	50	30	15	05
Total Hours			650	140	130	380

C – Compulsory

E – Elective

***Note: Students are required to complete six months of on-the-job training after successfully completing the one-year academic program.**

➤ **Entry Requirements**

NVQ Level 5 certificate in the field of Aquaculture or a relevant field

➤ **Assessment Method**

The program uses a combination of formative and summative assessments to evaluate students' knowledge, skills, and professional competencies.

➤ **Career Opportunities**

Graduates of the National Diploma in Seafood Technology (NVQ Level 5) are qualified for advanced technical, supervisory, and managerial roles in the following employment sectors, contributing to improved quality, efficiency, and sustainability within the national and international seafood sectors. This qualification prepares individuals to take on greater responsibility in quality assurance, production management, research, and industry development,

➤ **Pathways for Higher Studies**

Students are eligible to pursue a **BSc/ BTec degree** in Aquaculture and Seafood Technology or related fields.

➤ **Training Locations (regional Centers):**

Mattakkuliya

Tangalle

Galle

Panadura

Jaffna

HIGHER NATIONAL DIPLOMA IN MARITIME & LOGISTICS MANAGEMENT (NVQ LEVEL 06)



This program is designed for individuals who have completed NVQ Level 5 and are seeking to obtain a Higher National Diploma qualification. It offers comprehensive and in-depth knowledge in key areas of Maritime and Logistics Management. Upon successful

completion, learners will be eligible to receive the **NVQ Level 6 (HND) certification** awarded by the **Tertiary and Vocational Education Commission (TVEC) of Sri Lanka**, along with the certificate issued by the **Ocean University**.

Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
NVQ Level 6	Full time	Physical	12 Months	06 Months	120	English
	Part time	Blended Mode	12 Months	06 Months	120	English

Module Structure

A comprehensive range of modules has been developed to cover all key aspects of Maritime and Logistics Management at the operational level to fulfil the industry requirement. These modules also include extended components aligned with the NVQ Level 5 framework, ensuring that students receive both foundational and advanced knowledge relevant to the industry. The program is designed to equip learners with a solid theoretical understanding while simultaneously strengthening their practical competencies and technical skills required in real-world maritime and logistics environments.

The qualification is structured using a balanced combination of **Core Technical Units** and **Employability Units**. **Core Technical Units**, developed according to the National Competency Standards (NCS), are compulsory for all learners. These units address the

essential technical competencies necessary for performing effectively in the maritime and logistics profession. They cover critical operational areas, industry regulations, management practices, and hands-on technical requirements. **Employability Units** are also mandatory and focus on enhancing professional skills such as communication, teamwork, problem-solving, workplace ethics, and digital literacy. These units ensure that learners are not only technically competent but also well-prepared to function efficiently in diverse organizational settings.

Semester 1

Module	Unit Classification	Type	Notional Hours	Theory Hours	Practical hours	Self-Studies
Cargo operation & Transshipment (Part2)	T	C	175	110	10	60
Elements of Shipping Accounting	T	C	80	50	10	30
Basic Shipping Law & Convention	T	C	80	50	10	20
Ship Operation Management	T	C	145	80	15	50
Documentation in Commercial Shipping	T	C	120	80	10	15
Problem Solving & Decision Making	E	C	50	30	15	05
Teamwork & Leadership	E	C	50	30	15	05
Total Hours			700	430	85	185

Semester 2

Module	Unit Classification	Type	Notional Hours	Theory Hours	Practical hours	Self-Studies
Port & Terminal Management	T	C	170	110	25	35
Shipping Business Management	T	C	360	200	40	120
Logistics & Multimodal Transport Management	T	C	170	90	40	40
Creating & maintaining of learning Culture	T	C	50	30	15	05
Total Hours			750	430	120	200

*T: TECHNICAL UNITS/ E: EMPLOYABILITY UNITS /C: COMPULSORY

***Note: Students are required to complete six months of on-the-job training after successfully completing the one-year academic program.**

➤ **Entry Requirements**

This course is open to candidates who meet the following entry qualifications:

Completion of the National Vocational Qualification (NVQ) Level 5

➤ **Assessment Method**

Students will undergo a written test at the end of each semester, moderated by TVEC, with a minimum pass mark of 40%. Upon completion of the NVQ Level 6 program, students are required to complete 06 months of on-the-job training. Final competency is assessed through a Competency-Based Assessment conducted by NVQ Level 6 assessors appointed by TVEC.

➤ **Career Opportunities**

Diplomates of this course can pursue a variety of top & middle level roles in the maritime and logistics sector, including:

- Logistics Executive
- Warehouse Supervisor / Manager
- Customer Relations Officer
- Document Manager / Executive
- Linear Agency Executive
- Operations Executive /Shipping Service Executive

➤ **Training Locations (regional Centers):**

Negombo

Panadura

Galle

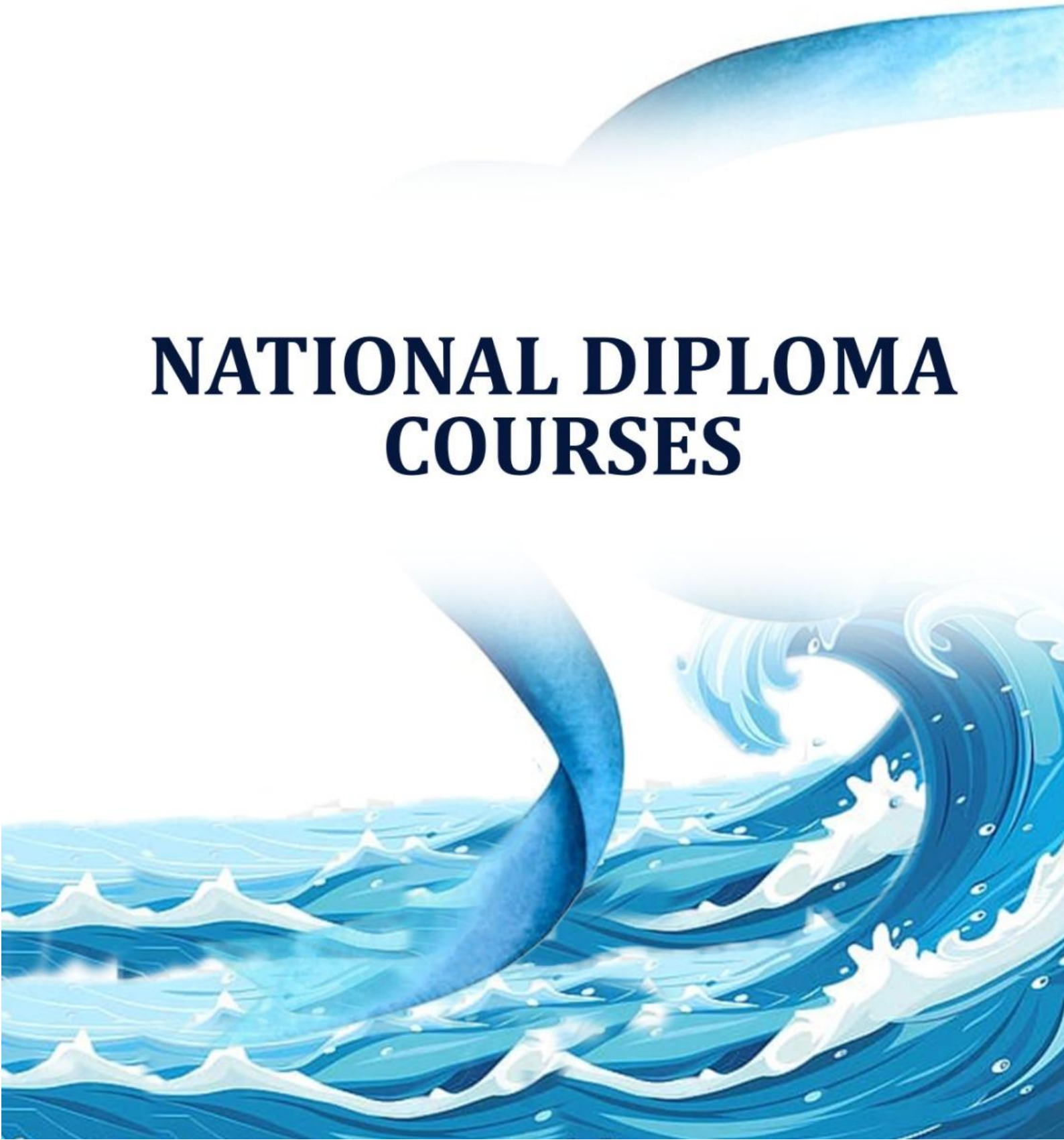
Tangalle

Jaffna

Batticaloa

Trincomalee

NATIONAL DIPLOMA COURSES



NATIONAL DIPLOMA IN AQUACULTURE AND AQUATIC RESOURCES MANAGEMENT (NVQ LEVEL 5)



This program delivers essential knowledge and hands-on skills in modern aquaculture and aquatic resource management. It emphasizes sustainable production practices, species and hatchery management, water quality control, and the use of advanced industry technologies. With aquaculture rapidly expanding globally, there is a growing demand for trained professionals to support sustainable fish production, aquatic health, and environmental stewardship. The course is designed to meet both national and international industry requirements and workforce standards.

The program aims to develop theoretical and practical skills in aquaculture, focusing on species culture, hatchery operations, aquatic health, water quality management, and modern aquaculture technologies. It prepares students for employment in farms, hatcheries, and research institutions while producing skilled technicians who can support national aquaculture development.

Course Structure

NVQ Level	Course Type	Mode	Course Duration	OJT Duration	Credit Policy	Medium
NVQ Level 5	Full-time	Physical	12 Months	6 Months	60 Credits	English
NVQ Level 5	Part-time	Blended mode	12 Months	6 Months	60 Credits	English

Modules Structure

Semester 1

Module Code	Module	Type	Notional Hours	Lectures/Tutorials	Practical / Design / Site Visits	Self-Study
B05T002M01	Principles of Aquaculture	C	50	20	25	5
B05T002M02	Language Skills	C	75	30	30	15
B05T002M03	Basic Chemistry for Aquaculture	C	50	20	25	5
B05T002M04	Basic Bio-statistics	C	50	25	20	5
B05T002M05	Aquaculture Extension	C	50	25	20	5
B05T002M06	Fish and Crustacean Biology	C	175	105	55	15
B05T002M07	Occupational Health and Safety Procedures & Practice	C	25	15	5	5
B05T002M08	Design Aquaculture Systems	C	75	45	25	5
B05T002M09	Introduction to Culturable Aquatic Species	C	25	10	10	5
B05T002M10	Information Technology in Aquaculture	C	50	25	20	5
B05T002M11	Water Quality Management	C	75	30	35	10
EMTM01	Workplace Information Management	C	75	45	20	10
Total Hours			775	395	290	90

Semester 2

Module Code	Module	Type	Notional Hours	Lectures/Tutorials	Practical / Design / Site Visits	Self-Study
B05T002M12	Hatchery Operation	C	125	50	50	25
B05T002M13	Nurseries & Grow-Out Farming	C	100	40	40	20
B05T002M14	Marine Fin/Shell Fish Culture	C	100	50	40	10
B05T002M15	Freshwater Fish & Prawn Culture	C	100	50	40	10
B05T002M16	Seaweed & Aquatic Plant Culture	C	75	45	20	10
B05T002M17	Disease Management	C	50	30	15	5
B05T002M18	Harvesting Technology	C	50	30	15	5
B05T002M19	Principles, Operation & Maintenance of Aquaculture Machinery and Equipment	C	125	50	50	25
EMTM02	Workplace Communication Management	C	75	45	20	10
EMTM03	Planning & Scheduling Work at the Workplace	C	50	30	15	5
Total Hours			850	420	305	125

➤ **Entry Requirements**

03 passes of Biology stream or Bio-systems Technology stream in G.C.E. (A/L) **or** Aquaculture Technician (NVQ 4). Any other qualification recognized by the institute

➤ **Assessment Method**

The program uses end-semester written examinations as summative assessment, while practical evaluations, assignments, project or case-study work, and continuous assessments form the formative component.

➤ **Career Opportunities**

- Farm Supervisor/Manager
- Hatchery supervisor/ Manager
- Aquaculture officer
- Field Extension officer
- Water Quality supervisor

➤ **Pathways for Higher Studies**

- NVQ Level 6 (Higher National Diploma)
- B.Sc. Degrees (local & international)
- Professional training programs in aquaculture

➤ **Training Locations (Regional Centers):**

Mattakkuliya
Negombo
Panadura
Galle

Tangalle
Jaffna
Batticaloa
Trincomalee

NATIONAL DIPLOMA IN SEAFOOD TECHNOLOGY (NVQ LEVEL 5)



The National Diploma in Seafood Technology (NVQ Level 5) is a professional qualification designed to develop skilled employees for the fisheries and marine sector. This program provides students with advanced knowledge and practical competencies in seafood processing, quality assurance, value

addition, and industry management. Emphasis is placed on modern processing techniques, food safety standards, sustainable resource utilization, and hands-on training in real industrial environments. By completing this diploma, students will be qualified to receive NVQ Level 05 certification awarded by the Tertiary and Vocational Education Commission (TVEC) of Sri Lanka, contributing to the growth and sustainability of the national fisheries sector.

Course Structure

NVQ Level	Course type	Mode	Course duration		Credit Policy	Medium
			Academic	OJT		
Level 5	Full time	Physical	12 months	06 months	60 credits	English

Module Structure

The National Diploma in Seafood Technology (NVQ Level 5) is organized into a series of competency-based modules that combine theoretical knowledge with practical, industry-oriented training. The course typically includes Core Technical Units and Employability Units. It is compulsory to include the Core Technical Units and Employability Units (8 credits) to obtain the NVQ Level 5 qualification. This module structure ensures students gain strong theoretical knowledge, practical skills, and technical expertise needed to become competent in seafood technology and capable of meeting industry demands.

Semester 1

Module Code	Module	Type	Notional hours	Theory hours	practical hours	Self-study
D15T003M01	Introduction to Seafood Industry	C	100	30	55	15
D15T003M02	General Biology of Aquatic Organisms	C	125	45	60	20
D15T003M03	Fundamentals of Food Chemistry	C	100	45	40	15
D15T003M04	Fundamentals of Food Nutrition	C	100	45	40	15
D15T003M05	Fundamentals of Food Microbiology	C	100	40	40	20
D15T003M06	Fundamentals of Food Processing Technology	C	100	50	40	10
EMPM01	Workplace Information Management	C	75	30	30	15
EMPM02	Workplace Communication Management	C	50	20	20	10
Total Hours			750	305	325	120

Semester 2

Module Code	Module	Type	Notional hours	Theory hours	practical	Self-study
D15T003M07	Pre and Post-Harvest Technology of aquatic products	C	100	45	40	15
D15T003M08	Fundamentals of fish and aquatic product Processing Technology	C	75	30	35	10
D15T003M09	Food Safety and Quality Assurance	C	100	50	40	10
D15T003M10	Cleaning and Sanitation	C	50	20	20	10
D15T003M11	Fundamental of Food Packaging	C	100	45	40	15
D15T003M12	Transport & Distribution of Seafood	C	75	30	30	15
D15T003M13	Unit operations in fish and other aquatic food processing	C	100	50	35	15
D15T003M14	Introduction to Waste Management	C	75	30	30	15
EMPM03	Plan Work to be performed at Workplace	C	75	30	30	15
Total Hours			750	330	300	120

*C – Compulsory**E – Elective*➤ **Assessment Methods**

Academic modules are assessed through continuous assessments and end-of-semester examinations, moderated by TVEC, while the On-the-Job Training (OJT) component is evaluated through a competency-based final assessment conducted by NVQ Level 5 assessors appointed by TVEC.

➤ **Entry Requirements:**

Pass G.C.E. Advanced Level in Science or technology stream

NVQ Level 4 certificate in the field of Aquaculture or a relevant field

➤ **Career Opportunities**

Graduates of the National Diploma in Seafood Technology (NVQ Level 5) are qualified for supervisory and technical roles in the following employment sectors of the fisheries and aquaculture industry.

Additionally, students are eligible to pursue a **BSc degree** in Aquaculture and Seafood Technology or related fields.

Technician
Junior Quality Assurance (QA) Officer
Quality Control (QC) Assistant
Junior Production Supervisor
Processing Plant Technician
HACCP / Food Safety Officer
Laboratory Technician
Research Assistant
Product Development Assistant
Sensory Evaluation Technician

➤ **Training Locations (Regional Centers):**

Mattakkuliya

Tangalle

Galle

Panadura

Jaffna

NATIONAL DIPLOMA IN MARITIME & LOGISTICS MANAGEMENT (NVQ LEVEL 5)



This course is designed for individuals seeking to obtain a National Diploma qualification. It provides a comprehensive knowledge base with significant depth in key areas related to Maritime and Logistics Management. Upon successful completion, learners will be eligible to pursue the NVQ Level 5 certification awarded by the Tertiary and Vocational

Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
NVQ Level 5	Full time	Physical	12 Months	06 Months	60 Credits	English
	Part time	Blended Mode	12 Months	06 Months	60 Credits	English

Module Structure

A comprehensive range of subject modules covering all aspects of Maritime Management and Logistics Management provides students with a strong theoretical foundation while enhancing their competencies and practical skills in the field. The qualification is structured with a combination of **Core Technical Units**, and **Employability Units**. **Core Technical Units (as per NCS)** are compulsory and must be included in the qualification. They cover the essential technical competencies required for the relevant occupational field. **Employability Units** are also mandatory, contributing to the development of professional and workplace skills.

Semester 1

Module	Unit Classification	Type	Notional Hours	Theory Hours	Practical hours	Self-Studies
Introduction to Shipping	T	C	60	25	15	20
Sales and Marketing	T	C	250	150	15	80
Introduction to documentation & Customer Service	T	C	240	150	15	80
Basic Human Resources Management and General Office Administration	T	C	100	50	15	35
Workplace Communication Management	E	C	50	30	15	5
Planning and scheduling work at workplace	E	C	75	45	20	10
Total Hours			775	450	95	230

Semester 2

Module	Unit Classification	Type	Notional Hours	Theory Hours	Practical hours	Self-Studies
Vessel Husbanding	T	C	170	120	20	30
Cargo Operation & Transshipment (Part1)	T	C	250	120	50	80
Equipment Control	T	C	190	120	40	30
Equipment Inventory Management	T	C	90	40	15	35
Workplace Information Management	E	C	75	45	20	10
Total Hours			775	445	145	185

***T: TECHNICAL UNITS/ E: EMPLOYABILITY UNITS /C: COMPULSORY**

***Note: Students are required to complete six months of on-the-job training after successfully completing the one-year academic program.**

➤ **Entry Requirements**

This course is open to candidates who meet the following minimum standards:

- **NVQ Level 4 qualification** in a relevant field
- **School leavers** who have successfully passed the **G.C.E. (A/L) Examination** in any stream

➤ **Assessment Method**

Students will undergo a written test at the end of each semester, moderated by TVEC, with a minimum pass mark of 40%. Upon completion of the NVQ Level 5 program, students are required to complete 06 months of on-the-job training. Final competency is assessed through a Competency-Based Assessment conducted by NVQ Level 5 assessors appointed by TVEC.

➤ **Career Opportunities**

Diplomates of this course can pursue a variety of roles in the maritime and logistics sector, including:

- Logistics Executive
- Warehouse Supervisor / Manager
- Customer Relations Officer
- Document Manager / Executive
- Linear Agency Executive
- Operations Executive /Shipping Service Executive

➤ **Training Locations (regional Centers):**

Negombo

Panadura

Galle

Tangalle

Jaffna

Batticaloa

Trincomalee

NATIONAL DIPLOMA IN MARINE ENGINE & MACHINERY MAINTAINANCE TECHNOLOGY (NVQ LEVEL 5)



National Diploma in Marine Engine & Machinery Maintenance Technology (NVQ Level 05) is designed to develop industry-ready marine engineering technicians with advanced knowledge and practical skills in the maintenance, repair, and installation of marine engines and auxiliary machinery. The program supports maritime safety, operational efficiency, and environmental compliance by addressing critical industry skill gaps and reducing mechanical failures. Aligned with national development priorities and international maritime standards, the course enhances employability in shipyards, dockyards, offshore platforms, and marine service companies, while also providing pathways for career advancement and higher-level qualifications.

Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
NVQ Level 5	Full time	Blended Mode	12 Months	06 Months	60 Credits	English

Modules Structure

Semester 1

Module Code	Module	Unit Classification	Type	Notional Hours	Theory Hours	Practical hours	Self-Studies
G50T003M01	Communicative English	T	C	50	20	20	10
G50T003M01	Technical Mathematics	T	C	125	78	12	35
G50T003M03	Introduction to physics	T	C	75	54	15	06
G50T003M04	Mechanics of Machines	T	C	75	60	10	05
G50T003M05	Workshop Technology	T	C	125	42	73	10
G50T003M06	Marine engineering technology (motor)	T	C	200	120	60	20
G50T003M15	Engineering Drawing	T	C	75	09	60	06
EMPM01	Workplace Information Management	E	C	50	30	10	10
EMPM02	Workplace Communication Management	E	C	50	30	10	10
Total Hours				825	443	270	112

Semester 2

Module Code	Module	Unit Classification	Type	Notional Hours	Theory Hours	Practical hours	Self-Studies
G50T003M07	Electrical Technology	T	C	100	80	15	05
G50T003M07	Marine engineering technology (general)	T	C	200	120	60	20
G50T003M07	Thermodynamics	T	C	100	60	30	10
G50T003M07	Refrigeration and Air Conditioning	T	C	50	24	21	5
G50T003M07	Hydraulic and Pneumatic	T	C	50	30	12	08
G50T003M07	Power transmission, propulsion and steering	T	C	100	81	15	04
G50T003M07	Ship Construction	T	C	65	42	18	05
G50T003M07	Occupational Health and Safety Practices	T	C	75	36	30	09
EMPM03	Planning and Scheduling work at the workplace	E	C	50	30	10	10
Total Hours				790	503	211	76

***T: TECHNICAL UNITS/ E: EMPLOYABILITY UNITS /C: COMPULSORY**

➤ **Entry Requirements:**

Relevant NVQ Level 3 or 4 in an occupation related to machinery maintenance, or passed in two 03 subjects of GCE Advanced Level Science, Mathematics or Engineering Technology Stream. Bridging modules should be organized as required in the prerequisites of the modules.

➤ **Assessment Method**

Examination structure:

A written test at the end of each semester is conducted by the training institute, with paper moderation by an approved panel.

Pass requirement:

The Pass Mark for the written tests is 40%.

*** The average of the summative and formative assessments should be => 40%**

➤ **Career Opportunities**

- Marine Engine Technician/Supervisor/Foreman
- Auxiliary Machinery Maintenance Specialist
- Marine Equipment Installation Technician
- Dockyard Maintenance Supervisor/Assistant Engineer/Engineer
- Offshore Platform Technician/ Supervisor/ Assistant Engineer/ Engineer
- Quality Assurance & Safety Inspector – Ensuring compliance with maritime safety and environmental standards.
- Hull engineering – Service supervisor/ Assistant Engineer / Engineer/Ship Painting Engineer
- Coating Inspector
- Draft Technician / Marine System Design Engineer

➤ **Training Locations (Regional Centers):**

Panadura
Mattakkuliya
Tangalle

NATIONAL DIPLOMA IN RECREATIONAL WATER SPORTS SCIENCE (NVQ LEVEL 5)



This course is designed for individuals seeking to obtain a National Diploma qualification in Recreational Water Sport Science. It provides comprehensive theoretical knowledge and practical competencies in recreational water sports, safety management, coaching, equipment handling, and operational management. Upon successful completion, learners will be eligible to obtain the NVQ Level 5 certification awarded by the Tertiary and Vocational Education Commission (TVEC) of Sri Lanka and the certificate offered by the Ocean University of Sri Lanka.

Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
NVQ Level 5	Full time	Physical	12 Months	06 Months	60 Credits	English

Module Structure

A module is structured with a combination of **Core Technical Units**, or **Employability Units of the National Competency Standard**. **Core Technical Units** are compulsory and must be included in the qualification. They cover the essential technical competencies required for the relevant occupational field. **Employability Units** are also mandatory, contributing to the development of professional and workplace skills.

Modules Structure

Semester 1

Module	Module Classification	Type	Notional Hours	Theory Hours	Practical hours	Self-Studies
Introduction to water sports science & recreation	T	C	50	24	14	12
Introduction to physics	T	C	100	42	36	22
Mathematics	T	C	100	60	20	20
Remote sensing & GIS	T	C	75	30	30	15
English for technology	T	C	100	60	30	10
Fundamental of human biology & physiology	T	C	100	42	30	28
Meteorology	T	C	100	40	40	20
Workplace Communication Management	E	C	75	45	20	10
Planning and Scheduling Work at Workplace	E	C	50	30	15	05
Total Hours			750	373	235	142

Semester 2

Module	Module Classification	Type	Notional Hours	Theory Hours	Practical hours	Self-Studies
Basics of seamanship and navigation	T	C	75	25	35	15
Basics of oceanography	T	C	75	40	20	15
Open water and advance open water diving	T	C	175	36	130	09
Fundamentals of surfing	T	C	100	18	64	18
Fundamentals of wind surfing	T	C	100	18	64	18
Basics of sailing	T	C	50	14	30	06
Jet water craft	T	C	100	50-	30	20
Workplace Ethics & Professional Practice	E	C	75	30	30	15
Total Hours			750	105	403	116

***T: TECHNICAL MODULES / E: EMPLOYABILITY MODULES /C: COMPULSORY**

***Note: Students are required to complete six months of on-the-job training after successfully completing the one-year academic program.**

➤ **Entry Requirements**

This course is open to candidates who meet the following minimum standards:

- **NVQ Level 4 qualification** in a relevant field
- **School leavers** who have successfully passed the **G.C.E. (A/L) Examination** in any stream

➤ **Assessment Method**

Assessment is twofold, comprising formative assessment and summative assessment. Formative assessment is carried out continuously during the teaching-learning process, while summative assessment is conducted at the end of each semester.

For the final assessment (summative), students are required to sit for a written examination at the end of each semester, with a minimum pass mark of 40%. The final marks are calculated based on the weightage specified for each module, combining results from both formative and summative assessments. Upon completion of the NVQ Level 5 program, students are required to complete 06 months of on-the-job training. NVQ certificate is issued after assessing through a Competency-Based Assessment conducted by NVQ Level 5 assessors appointed by TVEC.

➤ **Career Opportunities**

- Water Sports Operations Executive
- Safety & Risk Management Officer
- Recreational Sports Facility Officer
- Adventure & Marine Tourism Coordinator



➤ **Training Locations (Regional Centers):**

Negombo
Panadura
Galle
Tangalle
Jaffna
Batticaloa
Trincomalee

CERTIFICATE COURSES



CERTIFICATE COURSE FOR MARINE ENGINE TECHNICIAN (NVQ LEVEL 4)



Marine Engine Technician (Floating Vessels Mechanic) is responsible for the maintenance and repair of inboard and outboard marine engines, auxiliary machinery, and power transmission systems of vessels under 750 kW, in accordance with manufacturer specifications and industry standards to ensure safe and efficient operation. The role requires strong practical competence

in mechanical, hydraulic, and electrical systems, sound repair skills, and the ability to work safely in confined environments. This course is designed to meet the growing demand in both local and international maritime industries particularly in coastal shipping, fisheries, tourism, and offshore support by providing standardized, competency-based training aligned with the NVQ framework and international maritime practices, thereby equipping graduates with the skills necessary for employment, safety compliance, and career mobility.

Course Structures

NVQ Level	Course Type	Mode	Course Duration		Medium
			In house	OJT	
NVQ Level 4	Full time	Physical	06 Months	06 Months	Sinhala/ Tamil

Modules Structure

Module Code	Module	Type	Theory Hours	Practical hours
M01	Basic workshop practices	C	48	72
M02	Principles of electricity and electronics	C	18	12
M03	Introduction to vessels	C	18	06
M04	Introduction to propulsion (main) engine and incorporated systems	C	42	12
M05	Maintenance of propulsion engine and auxiliary machinery	C	18	24
M06	Repairing procedure of inboard installed engine and incorporated systems of vessels	C	36	96
M07	Repairing procedure of outboard installed engine of vessels	C	18	12
M08	Repairing procedure of steering system of vessels with inboard engine	C	18	12
M09	Repairing procedure of auxiliary machines/equipment of vessels with inboard engine	C	42	42
M10	Alignment faults identification of propulsion system	C	12	12
BM01	Communication skills for workplace	B	06	06
BM02	Workshop calculation & Science	B	18	06
BM03	Team Work	B	03	03
BM04	Practice occupational health and safety measures	B	12	06
Total Hours			309	321

***T: TECHNICAL UNITS/ B: BASIC UNITS /C: COMPULSORY**

➤ Assessment Method:

Academic:

Conduct continuous assessment and maintain a progress record book

OJT:

Six Months of on-the-job training on completion of NVQ Level 4 in one of the following places or a related organization

Sri Lanka Ports Authority
Naval Dockyard-Trincomalee, Galle

Competency-Based Assessment (Final Assessment) by NVQ Level 3 & 4 Assessors assigned by TVEC.

➤ Entry Requirements:

Education Qualification: School leavers who studied up to the GCE (O/L) examination.

Professional/Industry experience (if required)- For obtaining the NVQ Level 04 Qualification in the RPL method

➤ **Career opportunities:**

Potential job roles after completion: Outboard motor repairing, Mechanic

- Welder
- Marine Equipment Installer (Junior Level)
- Marine Fitter
- Dockyard Technician (Entry Level)
- Fishing Vessel Mechanic

➤ **Pathway for higher studies:**

National Diploma in Marine Engine & Machinery Maintenance Technology (NVQ Level 05),

➤ **Training Location (Regional Centers):**

Negombo
Panadura
Galle

CERTIFICATE COURSE FOR AQUACULTURE TECHNICIAN (NVQ LEVEL 4)



This course has been designed to provide systematic and organized training to acquire the skills and knowledge required for performing aquaculture for maximizing the aquaculture production in a sustainable manner.

This course is one of the entry qualifications of National wDiploma in Aquaculture and Aquatic Resources Management or Seafood Technology and continue their studies up to degree level through NVQ pathway.

This course provides a comprehensive training on Aquatic Life, Marine Ecosystems, Fishing and Farming Practices, processing practices and Common Environmental and Organizational Issues concerning in aquaculture facility to assist managers in the operation of the facility.

Upon successful completion, learners will be eligible to pursue the NVQ Level 4 certification awarded by the Tertiary and Vocational Education Commission (TVEC) of Sri Lanka, as well as the certificate offered by the Ocean University.

Course Structures

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium	Location
			In house	OJT			
NVQ Level 4	Full time	Physical	06 Months	06 Months		Tamil	Jaffna

Module Structure

A comprehensive range of subject modules covering all aspects of Aquaculture Technician responsibilities provides students with a strong theoretical foundation while enhancing their competencies and practical skills in the field. The qualification is structured with a combination of Core Technical Units and Employability Units:

Module Code	Module	Theory hours	Practical hours	Industrial hours
BM – 01	Fundamental operation of mathematics	12	06	00
BM – 02	Technical English	18	18	00
BM – 03	Fundamental of civil works	06	06	00
BM – 04	Basic information technology	10	12	00
BM – 05	Basic entrepreneurship development	06	00	00
M – 01	Establish aquaculture facility	15	54	24
M – 02	Maintain brood stock/ seed stock	21	42	40
M – 03	Carryout hatchery operation for fin fish, shell fish and other invertebrates	36	60	32
M – 04	Carryout propagation of aquatic plant and seaweed	15	24	16
M – 05	Perform stocking and nursery rearing	15	24	16
M – 06	Maintain rearing facility	12	30	24
M – 07	Perform grow-out facility	12	30	24
M – 08	Control and prevent diseases	20	30	8
M – 09	Handle live feed in different cultures	18	24	16
M – 10	Handle formulated feed	12	18	16
M – 11	Perform integrated farming systems	12	06	16
M – 12	Perform harvesting activities	12	24	32
M – 13	Perform post-harvesting activities	18	36	32
M – 14	Handle machinery and equipment	12	24	24
M – 15	Communicate with others	06	00	00
M – 16	Develop professionalism	06	06	00
TOTAL HOURS		294	474	320

Note: Students are required to complete six months of on-the-job training after successfully completing the one-year academic program.

➤ **Entry Requirements**

This course is open to candidates who meet the following minimum standards:

- School leaders who have successfully passed the G.C.E. (O/L) Examination
- Age limit: 16+

➤ **Assessment Method**

Evaluation and certification are conducted through two examinations—the Centre Examination and the TVEC Examination—and students must obtain a minimum of 40 marks in each module while maintaining at least 80% attendance to be eligible for certification

➤ **Career Opportunities**

After completion of the course, the students will be directed to acquire NVQ Level 4 certificate from the Tertiary and Vocational Education Commission (TVEC) of Sri Lanka. Students who complete this course are expected to enter the relevant occupations in the public and private sectors.

➤ **Training Location:**

Jaffna

Trincomalee

Batticaloa

Tangalle

Galle

Mattakkuliya

Negombo

CERTIFICATE COURSE FOR WHARF CLERK (NVQ LEVEL 4)



This course provides systematic training and comprehensive knowledge and skills covering all aspects of import, export, and customs-clearing activities. The program includes both theoretical and practical components related to the job, such as liaising between importers, exporters, and relevant authorities including customs, seaports, airports, and other agencies

directly involved in import and export procedures.

Participants will learn the preparation of required documentation in accordance with applicable laws, regulations, and valuation procedures governing imports, exports, and external trade. The course also covers operational processes from the packing of goods through transportation to the relevant vessel, as well as import and export duties.

This course serves as an entry qualification to the National Diploma in Maritime and Logistics Management. It is conducted under the accreditation of the Tertiary and Vocational Education Commission (TVEC) and in accordance with the National Competency Standards (NCS).

Course Structure

Type	Medium	Duration
Full Time	English	06 Months with 06 Months OJT

Course Modules

Module	Type	Theory Hours	Practical Hours	Total Hours
Check Documents Required for Clearing of Imports	Compulsory	25	21	46
Check Documents Required for Clearing of Export	Compulsory	25	15	40
Prepare CUSDEC for Customs Approval Imports	Compulsory	75	45	120
Prepare CUSDEC for Customs Approval Exports	Compulsory	75	45	120
Facilitate Release of Cargo to Importers	Compulsory	50	30	80
Facilitate Forwarding of Cargo to Exports	Compulsory	50	30	80
Total Hours		300	186	486

➤ Entry Requirements

School leavers, who have passes in at least six (6) subjects at the G.C.E. Ordinary Level Examination, including Sinhala or Tamil Language, Mathematics, and English

➤ Assessment Process

The final assessment consists of a written examination to evaluate knowledge of import and export procedures, wharf clerk duties, documentation, customs clearance, port operations, trade terms, and workplace safety, followed by a viva voce to assess the candidate's ability to apply this knowledge in practical, real-work situations.

➤ Job Opportunities

Upon successful completion of the course, participants will be eligible for employment as wharf clerks in customs offices, seaports, airports, and related departments and authorities, as well as in import and export companies.

➤ Training Location (Regional Centers):

Panadura, Galle and Negombo

CERTIFICATE COURSE FOR FISHING VESSEL SKIPPER (NVQ LEVEL 4)



This course is designed for individuals seeking to obtain a qualification in Fishing Vessel Operations and Skipper Training. It provides a comprehensive knowledge base with in-depth coverage of key areas in marine navigation, vessel operations, safety management, and fisheries regulations.

Upon successful completion, learners will be eligible to pursue the NVQ Level 4 certification awarded by the Tertiary and Vocational Education Commission (TVEC) of Sri Lanka, as well as the certificate offered by the Ocean University.

Course Structures

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
NVQ Level 4	Full time	Physical	06 Months	06 Months		Tamil/English



Module Structure

A comprehensive range of subject modules covering all aspects of fishing vessel operations and skipper responsibilities provides students with a strong theoretical foundation while enhancing their competencies and practical skills in the field.

COMPETENCY AREA		MODULE NO.	MODULE TITLE	Institutional	
				Theory	Practical
	Basic Module	BM-01	Fundamental operation of mathematics	18	12
	Basic Module	BM-02	Oceanography and Meteorology	18	06
	Basic Module	BM-03	Navigation and Position Identification	40	18
	Basic Module	BM-04	Seamanship	30	30
	Basic Module	BM-05	Fishing Gear methods	30	30
	Basic Module	BM-06	Marine Environment and Fishery Resources	12	06
A	Plan the voyage	M-01	Plan the voyage	18	12
B	Ensure condition of the boat/vessel	M-02	Ensure condition of the boat/vessel	90	90
C	Arrange consumables & other requirements	M-03	Arrange consumables & other requirements	30	18
D	Use navigation and communication	M-04	Use navigation and communication	30	60
E	Apply fishing gear operations	M-05	Perform fishing gear operations	30	30
F	Perform harvest techniques	M-06	Perform harvest techniques	18	30
G	Apply safety measures and damage control	M-07	Apply safety measures and damage control	60	30
H	Perform operation of marine engine	M-08	Perform operation of marine engine	30	30
J	Plan arrival at harbor	M-09	Plan arrival at harbor	12	18
K	Plan marketing procedure	M-10	Plan marketing process	12	18
L	Apply basic repair & maintenance activities	M-11	Apply basic repair & maintenance activities	60	60
Total				1036	
Sea training				03 months	

Note: Students are required to complete six months of on-the-job training after successfully completing the one-year academic program.

➤ **Entry Requirements**

- This course is open to candidates who meet the following minimum standards:
- School leavers who have successfully passed the G.C.E. (O/L) Examination
- Age limit: 16+

➤ **Assessment Method:**

Evaluation and certification are conducted through two examinations—the Centre Examination and the TVEC Examination—and students must obtain a minimum of 40 marks in each module while maintaining at least 80% attendance to be eligible for certification

➤ **Career Opportunities**

- Fishing Vessel Skipper / Captain
- First Mate / Deck Officer
- Fishing Operations Supervisor
- Vessel Safety Officer
- Marine Search & Rescue Coordinator
- Fisheries Patrol Officer

➤ **Training Location (Regional Centre)**

Jaffna

Negombo

Mattakkuliya

Panadura

Galle

Tangalle

Trincomalee

Batticaloa

CERTIFICATE COURSE FOR SCUBA DIVING (NVQ LEVEL 3)

CERTIFICATE COURSE FOR UNDERWATER WELDER (NVQ LEVEL 4)



These courses are designed to train and develop **competent Divers and Underwater Welders**, leading to the award of **NVQ Level 3 and Level 4 certifications**. Scuba diving serves a wide range of purposes, including recreational activities, fishing, industrial operations, scientific research, military applications, and public safety functions.

Students may choose from a variety of **specialized training packages** offered through the Scuba Diver Course. Each Regional Centre conducts these packages based on the minimum required student enrollment. Available packages include: **Open Water Diving, Advanced Open Water Diving, Commercial Diving (Open Water), Underwater Welding and Cutting, Commercial Diving (Advanced Open Water), Recreational Diving, and In-Water Rescue**.



This program is delivered under the accreditation of the **Tertiary and Vocational Education Commission (TVEC)** and adheres to the **National Competency Standards (NCS)** to ensure high-quality training and industry relevance.

Upon successful completion, students will be prepared to pursue employment opportunities locally or internationally in sectors such as **ports, tourism, and fisheries**, or work professionally as **Scuba Divers** or **Underwater Welders**. Opportunities for **self-employment** are also available.



➤ **Entry Qualifications (Scuba Diver):**

This course is open to applicants who meet the following minimum requirements:

- School leavers who have studied up to the GCE (O/L) examination, and
- Individuals possessing good physical fitness and swimming ability.

➤ **Entry Qualifications (Underwater Welder):**

Minimum requirements:

- School leavers who have studied up to the GCE (O/L) examination, and
- Individuals possessing good physical fitness and swimming ability, and

- Certified NVQ level 4 for the Scuba Diver and Marine Welder/ Welding Technology NVQ 5

Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
NVQ Level 3/4	Full time	Physical	12 Months	06 Months	-	Sinhala/Tamil

Module Structure

Competency Area	Module Code	Module	Institutional Hours	
			Theory	Practical
Basic Modules (Technical)	M01	Introduction to Diving	30	18
	M02	Diving Physics	18	12
	M03	Basic Physiology for Diving	24	06
	M04	Dive Environment	18	12
	M05	First aid	18	18
Prepare for dive	M06	Diving Methods	24	24
	M07	Confined Water Diving	12	42
Perform open water dive	M08	Open Water and Advanced Open Water Diving	30	72
Perform advanced open water dive				
Perform underwater welding/ cutting	M13	Basic Underwater Welding and Cutting	42	102
Perform in-water rescue	M12	In-water Rescue	12	24
Dive for recreational purpose	M11	Recreation Purpose Diving	24	18
Dive for commercial purpose (open water)	M09	Commercial Purpose Diving (up to 18m)	06	18
Dive for commercial purpose (advanced open water)	M10	Commercial Purpose Diving (up to 30m)	12	24
Basic Modules (Soft Skills)	BM01	Practice workplace communication and interpersonal relations	06	06
	BM02	Language Literacy and Numeracy	06	18
	BM03	Team work	06	12
	BM04	Occupational Safety & Health and Environmental Aspects	06	12
Total Hours			294	438
			732	

Package 1: Open Water Diving

- Perform open water dive

Package 2: Advance Open Water

- *Perform open water dive and dive for commercial purposes (advance open water)*

Package 3: Commercial Diving (Open Water)

- *Perform open water dive and dive for commercial purposes (open water)*

Package 4: Commercial Diving (Advance Open Water)

- *Perform open water dive,*
- *perform advance open water dive and dive for commercial purposes (advance open water)*

Package 5: Recreational Diving

- *Perform open water dive, perform advance open water dive and dive for recreational purposes*

Package 6: Underwater Welding and Cutting

- *Perform open water dive, perform advance open water dive and perform underwater welding and cutting*

Package 7: In Water Rescue

- *Perform open water dive, perform advance open water dive and perform in-water rescue*

➤ Assessment method

- Center Examination (Theory & Practical)
- TVEC Examination (VIVA & Skills Assessment)

➤ **Career Opportunities**

Graduates of this course can pursue various entry-level roles in the diving and marine sector, including:

- Assistant Dive Guide / Dive Buddy
- Dive Center Assistant
- Snorkeling Guide
- Marine Park Assistant
- Aquarium Diver
- Dive Equipment Maintenance Assistant
- Underwater Welder
- Beach & Pool Lifeguard (with additional certification)

➤ **Training Locations(Regional Centre):**

Tangalle

Negombo

Galle

Jaffna

Batticaloa

*(Underwater Welding and Cutting is conducted only at the **Tangalle** Centre).*

CERTIFICATE COURSE FOR LIFE GUARD (NVQ LEVEL 3 & 4)

The Lifeguard (NVQ Level 04) course is designed to develop competent, responsible, and professionally trained lifeguards capable of ensuring safety in diverse aquatic environments, including swimming pools, beaches, resorts, water parks, and recreational facilities. The program provides comprehensive training in water rescue techniques, lifesaving skills, first aid, CPR, emergency response, risk management, physical conditioning, and situational awareness, in alignment with national occupational standards. With the increasing demand for aquatic safety driven by swimming, water sports, tourism, and coastal recreation, this course plays a vital role in preventing drowning incidents, enhancing safety standards, supporting the tourism and recreation sectors, and creating skilled employment opportunities. Graduates are equipped to manage aquatic risks, conduct effective rescues, deliver emergency care, maintain constant surveillance, enforce safety regulations, communicate professionally with the public and emergency services, and demonstrate the fitness, discipline, and ethical responsibility expected of a professional lifeguard.



Course Structures

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
NVQ Level 4	Full time	Physical	06 Months	06 Months		English

Modules Structure

Module Code	Module	Unit Classification	Type	Theory Hours	Practical hours
BM-01	Basic swimming, rescue swimming and physical fitness	E	C	00	42
BM-02	Communication skill for lifeguard	E	C	50	00
M-01	Adept water safety activities and basic life-saving methods	T	C	09	09
M-02	Maintain water-based physical fitness	T	C	06	20
M-03	Maintain swimming skills	T	C	06	42
M-04	Maintain rescue skills	T	C	72	72
M-05	Perform first aid techniques	T	C	90	90
M-06	Perform advanced life support	T	C	15	15
M-07	Perform lifesaving activities at pool environment	T	C	80	100
M-08	Supervise safety and emergency rescue at swimming pool	T	C	30	30
Total				358	420

***T: TECHNICAL UNITS/ E: EMPLOYABILITY UNITS /C: COMPULSORY**

Assessment method

- Center Examination (Theory & Practical)
- TVEC Examination (VIVA & Skills Assessment)

Career opportunities:

- Professional Lifeguard (Swimming pools, beaches, water parks)
- Beach Lifeguard (Coastal and tourist beach locations)
- Pool Lifeguard (Hotels, resorts, sports clubs, apartments)
- Rescue and Safety Assistant
- Water Safety Officer
- Aquatic Facility Safety Supervisor (Entry-level)
- Lifesaving & First Aid Assistant
- Recreation and Leisure Safety Officer
- Water Sports Safety Crew Member
- Lifeguard Instructor Assistant (with experience and further certification)

➤ **Industry relevance**

- Tourism & Hospitality Industry: Essential for hotels, resorts, and recreational facilities to meet safety and insurance requirements
- Public Safety & Disaster Management: Supports drowning prevention and emergency response services
- Sports & Recreation Sector: Required in swimming pools, sports complexes, and water parks
- Maritime & Coastal Management: Contributes to safety in beaches and coastal recreational zones
- Health & Community Services: Promotes water safety awareness and lifesaving practices
- International Employment Market: NVQ Level 04 lifeguard certification enhances employability overseas, especially in tourism-driven countries

➤ **Training Location (Regional Centre)**

Negombo

Tangalle

CERTIFICATE COURSE FOR OUTBOARD MOTOR TECHNICIAN (NVQ LEVEL 3/4)

The Outboard Motor Technician (NVQ Levels 3 & 4)

course is designed to develop skilled technicians capable of diagnosing, servicing, repairing, and maintaining two-stroke and four-stroke outboard engines used in fishing boats, leisure craft, rescue vessels, and commercial marine operations. The program combines theoretical knowledge with hands-on practical training and aligns with national competency standards and maritime industry requirements. NVQ Level 3 focuses on fundamental mechanical and electrical maintenance, routine servicing, inspections, and safe workshop practices, while NVQ Level 4 develops advanced competencies in fault diagnosis, engine overhauls, performance optimization, safety and environmental compliance, customer communication, and workshop supervision. Given the vital role of outboard motors in fisheries, coastal transport, tourism, and marine services-particularly in coastal nations such as Sri Lanka. This course supports safe and efficient vessel operation, reduces breakdowns and operational costs, strengthens the fishing and marine tourism industries, promotes environmental responsibility, and enhances sustainable employment opportunities within coastal communities.



Course Structures

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
NVQ Level 3	Full time	Physical	09 Months	06 Months		English
NVQ Level 4	Full time	Physical	09 Months	06 Months		English

Modules Structure

Module Code	Module	Unit Classification	Type	Theory Hours	Practical hours
M01	Basic Mathematics	T	C	12	06
M02	Basics of Hydraulics and Pneumatics	T	C	12	12
M03	Basic Electrical and Electronics	T	C	12	12
M04	Workshop practice	T	C	40	72
M05	Waste Management & Environmental Safety	T	C	06	06
M06	Conventional Fuel System	T	C	42	60
M07	Cooling System	T	C	18	24
M08	Lubrication system	T	C	30	18
M09	Ignition system	T	C	18	18
M12	Charging system	T	C	18	18
M13	Manual & Electrical Starting System	T	C	18	30
M14	Power unit	T	C	54	90
M15	Tiler handle steering system (manual)	T	C	06	06
M16	Transmission system	T	C	24	42
M14	Power Unit	T	C	00	00
M10	Electronic fuel injection system	T	C	42	60
M11	Remote steering system and Remote controls	T	C	24	30
M17	Power trim and tilt unit	T	C	24	36
BM01	Communication Skills for workplace	E	C	06	06
BM02	Team work	E	C	02	06
BM03	Language literacy and numeracy	E	C	50	00
BM04	Occupational health and safety procedures and practices	E	C	20	00
Total hours				168	552

*T: TECHNICAL UNITS/ E: EMPLOYABILITY UNITS /C: COMPULSORY

➤ Entry Qualification:

This course is open to those who meet the minimum standard and requirement set forth below,

- School leavers, who studied up to (O/L) examination and suitably upgraded or, less qualified with industrial background, and Physically sound.

➤ Assessment method

- Center Examination (Theory & Practical)
- TVEC Examination (VIVA & Skills Assessment)

➤ **Career opportunities:**

- Marine Engine Technician
- Boat Engine Maintenance Technician
- Marine Workshop Technician
- Service & Repair Technician (Outboard Motors)
- Fisheries Vessel Engine Technician
- Marine Equipment Service Assistant

➤ **Training Location (Regional Center):**

Negombo

Galle

Tangalle

Trincomalee

Batticaloa

Jaffna

CERTIFICATE COURSE FOR LOGISTICS OPERATIONS (STORE KEEPER) (NVQ LEVEL 4)

The **Logistics Operations (Store Keeper)** NVQ Level 04 course is designed to develop competent professionals capable of efficiently managing warehouse and store operations across logistics, manufacturing, retail, maritime, and supply chain sectors. The program



combines theoretical knowledge with hands-on practical training in inventory control, material handling, storage systems, documentation, logistics coordination, and basic IT applications. Effective store and inventory management is essential to minimizing stock losses, reducing operational delays and costs, and ensuring

workplace safety. Aligned with national vocational standards, this course addresses the growing demand for qualified store keepers, enhances accuracy and accountability in inventory handling, supports organizational efficiency, improves employability at local and international levels, and provides a strong foundation for career progression in logistics and supply chain management.

Course Structures

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
NVQ Level 4	Full time	Physical	06 Months	06 Months	60 Credits	English

Modules Structure

	Module	Unit Classification	Type	Notional Hours	Theory Hours	Practical hours
M01	Documents Related to Stores Work	T	C	36	30	06
M02	Follow-up Methods for Goods and Materials Request	T	c	78	48	30
M03	Goods and Materials Receive to Stores	T	C	78	48	30
M04	Stocks Maintenance	T	C	96	60	36
M05	Goods and Materials Issue from Stores	T	C	78	48	30
M06	Physical Stock Verification	T	C	54	30	24
M07	Basics of Store Management	E	C	96	60	36
M08	Communication Skills for Workplace	E	C	54	42	12
M09	Workshop Calculation & Science	E	C	72	60	12
M10	Occupational Health & Safety	E	C	48	24	24
M11	Team Work	E	C	30	24	6
Total Hours				720	474	246

***T: TECHNICAL UNITS/ E: EMPLOYABILITY UNITS /C: COMPULSORY**

➤ Entry Qualification

This course is open to those who meet the minimum standard and requirement set forth below,

- School leavers, who studied up to (O/L) examination and suitably upgraded

➤ Assessment method

- Center Examination (Theory & Practical)
- TVEC Examination (VIVA & Skills Assessment)

➤ **Career opportunities:**

- Store Keeper
- Warehouse Assistant / Warehouse Executive
- Inventory Control Assistant
- Logistics Assistant
- Stores & Materials Assistant
- Stock Controller
- Dispatch & Receiving Officer
- Supply Chain Assistant
- Goods Receiving Clerk
- Warehouse Documentation Officer

➤ **Training Location:**

Galle

Panadura

Negombo

Jaffna

Tangalle

Batticaloa

CERTIFICATE COURSE FOR MARINE WELDING TECHNOLOGY (NVQ LEVEL 4)



Marine Welding Technology (NVQ 4) program is a specialized technical training initiative designed to cultivate highly skilled professionals for the global shipbuilding, ship repair, and offshore engineering sectors. By integrating rigorous theoretical knowledge with advanced practical applications, the curriculum ensures that technicians meet the stringent international standards required for high-stakes maritime environments. This program directly addresses the surging demand for certified welders in both local and international markets, serving as a critical pillar for national maritime development. Ultimately, it equips graduates with the precision and safety-conscious expertise necessary to maintain the structural integrity of vessels and offshore platforms in the world's most demanding oceanic conditions.

Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
NVQ Level 4	Full time	Physical	7 Months	06 Months	40 Credits	Sinhala

Module Structure

The **NVQ Level 4 Module Structure** is strategically designed to transform skilled welders into technical experts by blending advanced welding technology with specialized maritime engineering. The curriculum covers a comprehensive range of subjects, from the **metallurgy of marine-grade materials** to the complex **structural mechanics** required for shipbuilding and offshore repair. By integrating rigorous practical training with international safety protocols, the program ensures that technicians can execute high-precision welds capable of withstanding extreme oceanic pressures and corrosive environments.

Module Code	Module	Unit Classification	Theory Hours	Practical hours
D28s002M01	Occupational Safety & Health and environmental aspects	T	24	06
D28s002M02	Workshop Calculation and Science	T	12	48
D28s002M03	Hand tools Power tools and machinery used in welding shop	T	24	06
D28s002M04	Introduction to welding process	T	24	06
D28s002M05	Cut steel by oxy-fuel gas process	T	06	24
D28s002M06	Material Preparation for welding	T	12	48
D28s002M08	Manual metal Arc plate fillet weld	T	24	66
D28s002M09	Manual metal Arc Plate groove weld	T	12	144
D28s002M10	Manual Metal Arc Pipe weld	T	36	144
D28s002M18	Flux cored Arc Welding (FCAW) of plates	T	30	120
D28s002M19	Flux cored Arc Welding (FCAW) of pipes	T	36	144
D28s002BM01	Communication skills for workplace	E	03	12
D28s002BM02	Workshop calculation & science	E	60	00
D28s002BM03	Team work	E	03	12
	English	E	60	00
Total Hours			366	780

➤ Entry Requirements

School leavers, who studied up to (O/L) examination and suitably upgraded

➤ Assessment Method

- **Examination structure** - Combination of written tests, practical assessments, and on-the-job training evaluation.
- **Pass requirement** – minimum 40 Marks exam and Practical
- **Certificate/diploma awarded** - NVQ 3/4
- **Awarding body** - Ocean University of Sri Lanka NVQ

➤ Career Opportunities

Choosing a career in **Marine Welding with an NVQ Level 4** certification places you in a high-demand, technically skilled niche within the global maritime industry

Shipyard & Repair Specialist, Offshore Construction Marine Fabricator, Maintenance Technician. Countries with major shipping hubs (and those expanding green energy (offshore wind) are actively recruiting NVQ-certified divers and welders.

➤ Training Locations:

Mattakkulliya Regional Centre



FCAW (FLUX-CORED ARC WELDING)



A specialized technical training program focused on Flux-Cored Arc Welding (FCAW) for industrial applications, including shipbuilding, construction, and heavy fabrication. FCAW is highly valued in the maritime and offshore industries due to its high deposition rates and productivity compared to other welding processes. To train skilled welders in semi-automatic

FCAW techniques. To ensure safety awareness and competence in handling flux-cored equipment. To prepare students for industry-standard certification (e.g., AWS qualification).

Level	Course Type	Mode	Course Duration	Credit Policy	Medium
Certificate	Fulltime/part time	Physical	3 months	60 Credits	Sinhala

Module Structure

This qualification provides a comprehensive range of subject modules covering all aspects of deck operations and maritime management. The structure ensures students develop a strong theoretical foundation alongside the practical competencies required by **DGMS standards** and the **International Convention on Standards of Training, Certification and Watchkeeping (STCW)**.

Course Module

Module	Unit Classification	Type	Theory Hours	Practical hours
Workshop Safety	T	C	60	60
Various type of welding Gas, welding positions and materials	T	C	06	24
Arc welding 1F, 2F, 3F Position	P	C	24	66
Arc welding 1G, 2G, 3G Position	p	C	12	144
Gas Cutting	p	C	06	24
Plasma cutting	P	C	06	24
FCAW welding 1F,2F,3F Position	P	C	15	60
FCAW Welding 1G,2G,3G Position			15	60
Total Hours			144	462

➤ **Entry Requirements**

- Professional/Industry experience (if required)
- Age limits (if any) – 18-30 years

➤ **Assessment Method**

AWS assessment and X-ray scanning

NVQ assessment for FCAW unit

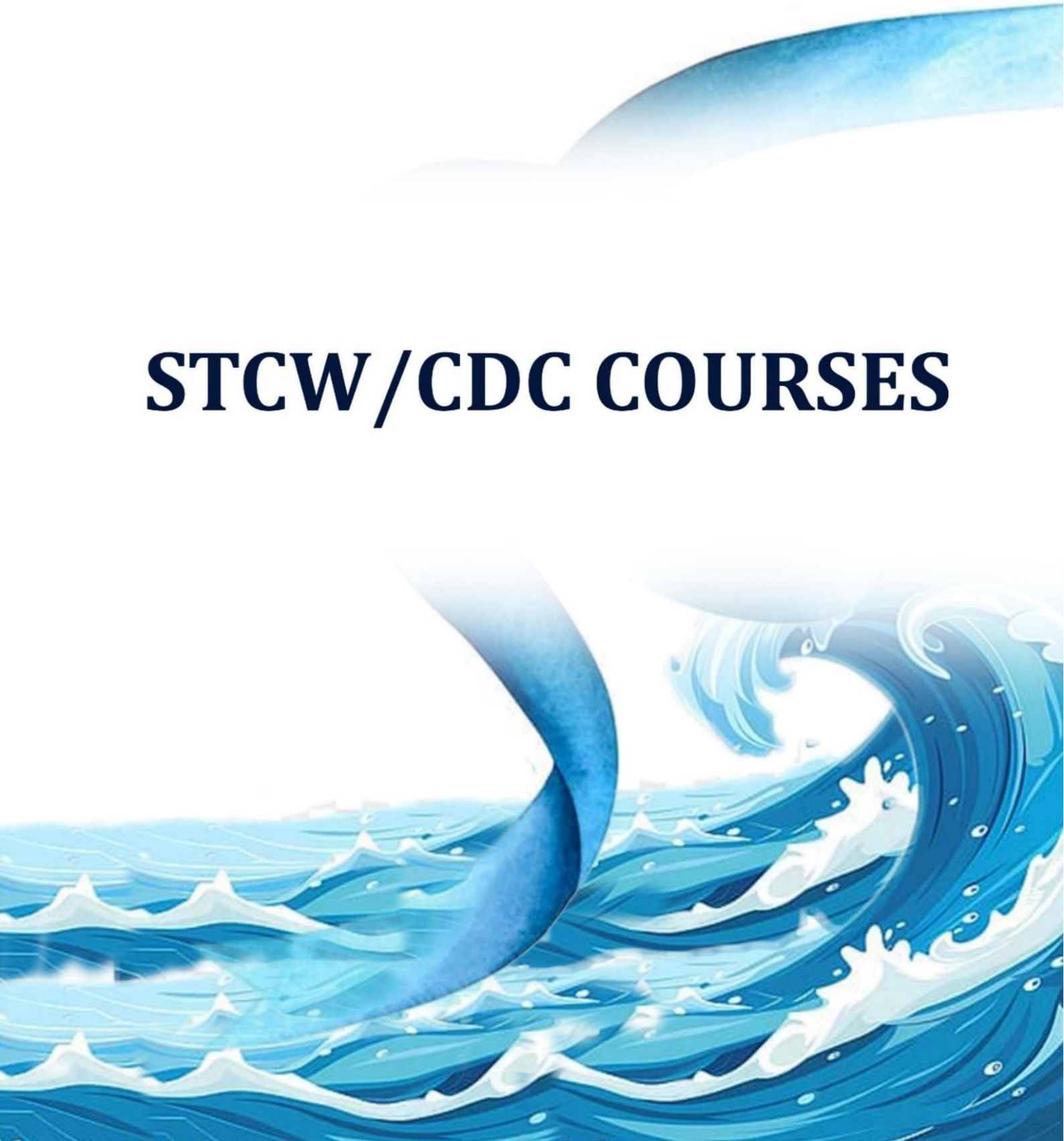
➤ **Career Opportunities**

High demand in international and local as Marine Welder, welder, Fitter Shipyard Technician, Offshore Welding Specialist, Fabricator, and Maintenance Technician in maritime industries.

➤ **Training Locations:**

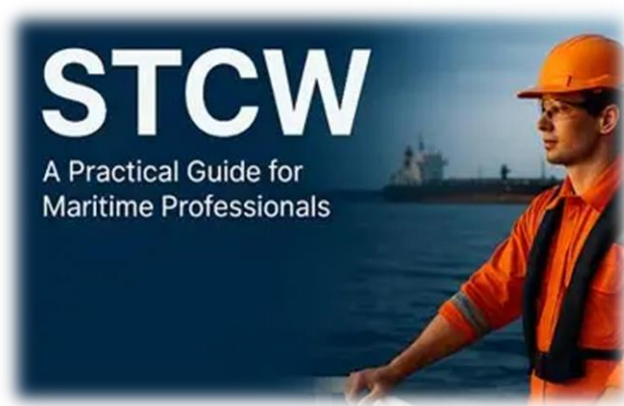
Mattakkuliya Regional Centre

STCW/CDC COURSES



What is STCW?

STCW stands for Standards of Training, Certification and Watchkeeping. It is a worldwide convention that ensures a lateral standard of training is achieved across all countries in the world.



Anyone wishing to work on commercial vessels that are over 24 meters long will have to obtain STCW qualifications/courses before they seek employment. The type of courses/qualifications you will need will greatly depend on the position you are applying for and the post you will be assigned to once you are on-board. Course Structure.

Level	Course Type	Mode	Course Duration	Credit Policy	Medium
Certificate	Full time	Physical	06 Months	60 Credits	English



PRE-SEA TRAINING COURSE FOR DECK RATING



This course has been designed as a basic program for those who wish to obtain a Continuous Discharge Certificate (CDC), a requirement to navigate as a sailor on merchant ships.

This course has designed to provide systematic and organized training to acquire the skills and knowledge required for assisting deck officers in all routing operational activities of the deck rated

machinery and equipment and assist the officer of the watch, in watch keeping duty. This course is approved by the Merchant Shipping Secretariat (MSS) in line with the STCW guidelines.

Module Structure

This qualification provides a comprehensive range of subject modules covering all aspects of deck operations and maritime management. The structure ensures students develop a strong theoretical foundation alongside the practical competencies required by **DGMS standards** and the **International Convention on Standards of Training, Certification and Watchkeeping (STCW)**.

Course Module

Module	Unit Classification	Type	Theory Hours	Practical hours
Cargo Handling & Seamanship	T	C	310	120
Navigation & Chart work	T	C	60	-
Ship Knowledge	T	C	60	-
Marine Pollution & International Law	T	C	26	-
Meteorology	T	C	24	-
Technical English	T	C	75	-
Information Technology	E	C	45	-
Total Hours			600	120

➤ Entry Requirements

- Education Qualification -O/L 6 Passes with English, Mathematics, Science
- Professional/Industry experience (if required)
- Age limits (if any) – 18-30 years

➤ **Assessment Method**

Students will undergo a quizzes, and evaluations of theoretical and Practical knowledge written test at the end of each semester and midsemester exams, regulate by DGMS, with a minimum pass mark of 60%, students are required to complete of on-the-job training.

➤ **Career Opportunities**

High demand in international shipping, port operations, cargo handling, and global merchant fleets, offering opportunities both locally and abroad

- Deck Rating
- Able Seaman
- Bosun
- Ordinary Seaman
- Watchkeeping Assistant on merchant vessels

Progression to advanced maritime certifications (e.g., Officer of the Watch, Deck Officer training), and further studies in nautical science or maritime management

➤ **Training Location:**
Mattakkulliya
Tangalle

PRE-SEA TRAINING COURSE FOR ENGINE RATING



This Program designed to prepare school leavers for entry-level engine department roles on merchant vessels. It equips students with the skills and knowledge needed to assist Engine Officers in shipboard operations, machinery maintenance, and watchkeeping, and is approved under international STCW guidelines.

To produce skilled students capable of assisting in engine room operations, machinery upkeep, lubrication systems, and pollution prevention duties. There is high demand for trained Engine Ratings in both local and international merchant shipping industries.

Course Module

Module	Unit Classification	Type	Theory Hours	Practical hours
Marine Engineering Knowledge (General)	T	C	148	-
Marine Engineering Knowledge (Motor)	T	C	66	57
Workshop Technology	T	C	103	133
Marine pollution & International Law	T	C	26	-
Meteorology	T	C	24	-
Safety	T	C	43	-
Information Technology	T	C	45	-
Technical English	E	C	75	-
Total Hours			530	190

➤ **Entry Requirements**

- Education Qualification -O/L 6 Passes with English, Mathematics, Science
- Professional/Industry experience (if required)
- Age limits (if any) – 18-30 years

➤ **Assessment Method**

Students will undergo a quiz, and evaluations of theoretical and Practical knowledge written test at the end of each semester and midsemester exams, regulate by DGMS, with a minimum pass mark of 60%, students are required to complete of on-the-job training.

➤ **Training Location:**

**Mattakkulliya
Tangalle**

NON-NVQ COURSES SHORT COURSES



MARINE CHART READING COMMUNICATION & OPERATION OF SATELLITE NAVIGATORS



This course has been designed to provide all round skills of handling GPS and respond well to modern spatial technologies. Satellite applications are being used in land, sea, air and space studies and management applications in the sea covering a wide spectrum of fields, such as oceanography (bathymetry, tides waves, sea level, currents surface water temperature) training where short term course has identified as a basic level qualification for several

carrier opportunities. Upon successful completion, as well as the certificate offered by the Ocean University.

Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
Non NVQ	Part Time	Physical	10 Days	Nil		English/Tamil

Module Structure

A comprehensive range of subject modules covering all aspects of Marine chart Reading Communication & Operation of satellite Navigators responsibilities provides students with a strong theoretical foundation while enhancing their competencies and practical skills in the field.

The qualification is structured with a combination of Core Technical Units and Employability Units:

- They cover the essential technical competencies required for the relevant occupational field.
- Employability Units are also mandatory, contributing to the development of professional and workplace skills.

S/N	Module	Time	
		Theory	Practical
1.	Marine Chart Reading	21	24
2.	Communication	09	-
3.	Operation of Satellite Navigators	-	06
	Total Hours	30	30

➤ Entry Requirements

This course is open to candidates who meet the following minimum standards:

- School leavers who have successfully passed the G.C.E. (O/L) Examination
- Age limit: 16+

➤ Assessment Method

We have one examination:

- Center Examination

Students must obtain **at least 40 marks in each module**. In addition, all students are required to maintain a minimum of **80% attendance**.

➤ Career Opportunities

Students who complete this course are expected to enter the relevant occupations in the public, private sectors and Technician or start a self-employment.

➤ Training Locations:

All Regional Centers

MANGROVE ECOSYSTEM CONSERVATION & RESTORATION JOURNEY TRAINING PROGRAM (PART TIME)

This course is urgently needed to address the degradation of a critically important ecosystem. Mangrove forests provide invaluable services, including coastal protection



from natural disasters, support for biodiversity by acting as nurseries for marine life, and carbon sequestration to combat climate change. Human activities and natural threats are jeopardizing these benefits. By training local community members, government officials, and students, this curriculum fills a crucial knowledge gap, empowering a new generation of "Coast

Guardians" to protect and restore these habitats. Trainings where short term course has identified as a basic level qualification for several carrier opportunities. Upon successful completion, as well as the certificate offered by the Ocean University.

Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
Non NVQ	Part Time	Physical	10 Days	Nil	-	Tamil

Module Structure

A comprehensive range of subject modules covering all aspects of Basic Technology of sea cucumber culture responsibilities provides students with a strong theoretical foundation while enhancing their competencies and practical skills in the field.

The qualification is structured with a combination of Core Technical Units and Employability Units:

- They cover the essential technical competencies required for the relevant occupational field.
- Employability Units are also mandatory, contributing to the development of professional and workplace skills.

Module	Hours	
	Theory	Practical
Introduction to Mangrove Ecosystems	03	01
Biodiversity and Environmental Adaptations of Mangrove forests	05	06
Mangrove Associate Plants	04	01
Mangrove Ecosystems of the Jaffna Peninsula	04	01
Ecosystem service and Disaster Mitigation	04	06
Challenges and Threats to Mangrove Ecosystems	05	04
Coastal Legislation and Policies	04	01
Restoration and Management of Mangrove Forests	06	05
Total Hours	35	25

➤ Entry Requirements

This course is open to candidates who meet the following minimum standards:

- School leavers who have successfully passed the G.C.E. (O/L) Examination
- Age limit: 16+

➤ Assessment Method

We have one examination:

- Center Examination

Students must obtain at least 40 marks in each module. In addition, all students are required to maintain a minimum of **80% attendance**.

➤ Career Opportunities

Students who complete this course are expected to enter the relevant occupations in the public, private sectors and Technician or start a self-employment.

➤ Training Locations (Regional Centre)

Jaffna Regional Centre

ORNAMENTAL FISH FARMING TECHNICIAN TRAINING PROGRAM

This course has been designed to provide systematic and organized training to improve the skills and knowledge of Ornamental fish culture. Ornamental fish keeping is one of the most popular hobbies. Ornamental fishes form an important commercial component of aquaculture, providing for aesthetic requirement and upkeep of the environment. Trainings where short term course has identified as a basic level qualification for several carrier opportunities. Upon successful completion, as well as the certificate offered by the Ocean University.



➤ Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
Non NVQ	Part Time	Physical	15 Days	Nil		Sinhala or Tamil

➤ Module Structure

A comprehensive range of subject modules covering all aspects of Ornamental Fish Farming Technician responsibilities provides students with a strong theoretical foundation while enhancing their competencies and practical skills in the field.

The qualification is structured with a combination of Core Technical Units and Employability Units:

- They cover the essential technical competencies required for the relevant occupational field.
- Employability Units are also mandatory, contributing to the development of professional and workplace skills.

Content		Module Code No.	Total (hrs)
1.	Introduction to ornamental fish industry	M01	04
2.	Ornamental Fish Breeding and Rearing	M02	15
3.	Fish Feeding management	M03	12
4.	Water quality management	M04	08
5.	Fish Health and disease management	M05	14
6.	Construction of aquaculture farm	M06	07
7.	Post Harvesting practices and transportation	M07	09
8.	Ornamental fish Farm management	M08	09
9.	Basic Business and marketing	M09	12
10.	Assessment		
Total			90

➤ Entry Requirements

This course is open to candidates who meet the following minimum standards:

- School leavers who have successfully passed the G.C.E. (O/L) Examination
- Age limit: 16+

➤ Assessment Method

We have one examination:

- Center Examination

Students must obtain **at least 40 marks in each module**. In addition, all students are required to maintain a minimum of **80% attendance**.

➤ Career Opportunities

Students who complete this course are expected to enter the relevant occupations in the public, private sectors and Technician or start a self-employment.

➤ Training Locations (Regional Centre):

Jaffna

Trincomalee

Batticaloa

Tangalle

Galle

Panadura

Mattakkuliya

Negombo

BASIC TECHNOLOGY OF SEA CUCUMBER CULTURE - SHORT COURSE



This course has been designed to provide comprehensive, hands-on knowledge and practical skills in the **basic technologies of sea cucumber farming**, covering nursery, grow-out, and post-harvest handling techniques. Through this program, beneficiaries will gain a clear understanding of the biological, nutritional, and economic importance of sea cucumbers. Sea cucumbers are **export commodity** rich in protein, vitamins, and minerals, also contain bioactive compounds that may contribute to overall health benefits.

This short-term training course has been identified as a **basic level qualification** that opens pathways to several career opportunities in export-oriented aquatic production. Upon successful completion, participants will be awarded a certificate issued by the Ocean University, recognizing their competency in sea cucumber farming technology.

Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
Non NVQ	Part Time	Physical	10 Days	Nil		Tamil

Module Structure

A comprehensive range of subject modules covering all aspects of Basic Technology of sea cucumber culture responsibilities provides students with a strong theoretical foundation while enhancing their competencies and practical skills in the field.

The qualification is structured with a combination of Core Technical Units and Employability Units:

- They cover the essential technical competencies required for the relevant occupational field.
- Employability Units are also mandatory, contributing to the development of professional and workplace skills.

	Module	Time	
		Theory	Practical
01	Basic Introduction	03	03
02	Site Selection, Pond Design and Water Quality Management	03	03
03	Reproduction and Larval Rearing Techniques	02	04
04	Field Trip and Introduction to Sea Cucumber farm	0	12
05	Advanced Sea Cucumber Techniques	02	04
06	Business and Market Opportunities of Sea Cucumber	03	03
07	Pond Set-Up, Juvenile Rearing, management practices, and Culturing & Harvesting techniques. (In the field)	0	18
	Total Hours	13	47

➤ Entry Requirements

This course is open to candidates who meet the following minimum standards:

- School leavers who have successfully passed the G.C.E. (O/L) Examination
- Age limit: 16+

➤ Assessment Method

We have one examinations:

- Center Examination

Students must obtain **at least 40 marks in each module**. In addition, all students are required to maintain a minimum of **80% attendance**.

➤ Career Opportunities

Students who complete this course are expected to enter the relevant occupations in the public, private sectors and Technician or start a self-employment

➤ Training Locations(Regional Centre):

Jaffna Regional Centre

BASIC TECHNOLOGY OF SEA-WEED CULTURE - SHORT COURSE

This course has been designed to provide all round skill of basic technology of seaweed culture. Beneficiaries are able to know in this course use in fertilizers, animal feed, fish feed, cosmetics, and wastewater treatment Seaweed can be used in sushi, soups, salads, and smoothies.

Trainings where short term course has identified as a basic level qualification for several carrier opportunities. Upon successful completion, as well as the certificate offered by the Ocean University.



Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium	Location
			In house	OJT			
Non NVQ	Part Time	Physical	10 Days	Nil		Tamil	Jaffna

Module Structure

A comprehensive range of subject modules covering all aspects of Basic Technology of Seaweed culture responsibilities provides students with a strong theoretical foundation while enhancing their competencies and practical skills in the field.

The qualification is structured with a combination of Core Technical Units and Employability Units:

- They cover the essential technical competencies required for the relevant occupational field.
- Employability Units are also mandatory, contributing to the development of professional and workplace skills.

Module	Time	
	Theory	Practical
Basic Introduction	03	03
Seaweed Farm Design and Infrastructure	06	06
Seaweed farm visit and set -up (Practical session)	00	12
Advanced Seaweed Culture Techniques	06	06
Business and Market Opportunities of Seaweeds	03	03
Practical session -02Management Practices, Culturing, Harvesting, and Processing Techniques	00	12
Total Hours	18	42

➤ Entry Requirements

This course is open to candidates who meet the following minimum standards:

- School leavers who have successfully passed the G.C.E. (O/L) Examination
- Age limit: 16+

➤ Assessment Method

We have one examination:

- Center Examination

Students must obtain **at least 40 marks in each module**. In addition, all students are required to maintain a minimum of **80% attendance**.

➤ Career Opportunities

Students who complete this course are expected to enter the relevant occupations in the public, private sectors and Technician or start a self-employment

➤ Training Locations (Regional Centre):

Jaffna Regional Centre

SWIMMING - SHORT COURSE

This course has been designed to skills to provide all round skill of swimming where short term course has identified as a basic level qualification for several carrier opportunities. Trainings where course has identified as a basic level qualification for several carrier opportunities. Upon successful completion, as well as the certificate offered by the Ocean University.



Course Structure

NVQ Level	Course Type	Mode	Course Duration		Credit Policy	Medium
			In house	OJT		
Non NVQ	Part Time	Physical	18 Days	Null	-	Sinhala Tamil English

Module Structure

A comprehensive range of subject modules covering all aspects of swimming responsibilities provides students with a strong theoretical foundation while enhancing their competencies and practical skills in the field.

The qualification is structured with a combination of Core Technical Units and Employability Units:

- They cover the essential technical competencies required for the relevant occupational field.
- Employability Units are also mandatory, contributing to the development of professional and workplace skills.

Module	Time	
	Theory	Practical
Introduction to water Skill	03	-
Enhancing Physical Fitness	02	21
Safety Swimming	-	82
Evaluation	-	03
Total Hours	05	106

➤ **Entry Requirements**

This course is open to candidates who meet the following minimum standards:

- School leavers who have successfully passed the G.C.E. (O/L) Examination
- Age limit: 16+

➤ **Admission Process**

You can view our requirements on our website, in newspaper notices, or on our Facebook page. If you meet the requirements, you can download the application form and submit it through our center.

➤ **Assessment Method:**

Center Examination

Students must obtain **at least 40 marks in each module**. In addition, all students are required to maintain a minimum of **80% attendance**.

➤ **Career Opportunities**

Students who complete this course are expected to enter the relevant occupations in the public, private sectors and Technician or start a self-employment

➤ **Training Location (Regional Centre)**

Jaffna

Trincomalee

BatticaloaNegombo

Panadura

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