



# Diploma in LNG Shipping

2024/25

Supported by





## Turn to the Distance Learning Experts

### Why choose Maritime Training Academy?

#### The Distance Learning Experts

Since its formation Maritime Training Academy has been successfully providing specialist, expert training to marine professionals around the globe.

In recent years the Academy has significantly grown, offering an ever expanding training portfolio across several sectors of the maritime industry, from Superyachts to Shipping and Marine Surveying.

Delivered by distance learning our courses are managed and run by established professionals within the maritime industry. We are constantly pushing back the boundaries of knowledge with discoveries that are benefiting the industry.

Due to our rigorous academic standards our qualifications are highly respected internationally.

#### Outstanding Teaching

Our study material is written by industry experts who are actively working in their specialist fields. We provide outstanding teaching as a result of extensive research and close links within the maritime industry. Our tutors are practising professionals with strong academic and industry backgrounds, with sector-specific skills and practical experience.

#### World Class Learning

The inspiring thing about studying with us is not just what you learn but how you learn. We have taken flexible learning to a whole new level. We will connect you with the things that inspire you, wherever you are and wherever you come from. Providing high quality distance learning enables you to learn in your own time, at home, on board or wherever you choose. We are not campus based – reading material is supplied for assignments with regular support from your tutor. We will challenge you, inspire you, stretch your understanding and make you question ideas that you have always taken for granted – it is truly world-class learning.

#### Excellent Support and Guidance

You will enjoy full support throughout your studies with module tutors to guide, advise and offer comprehensive feedback on your course work. Support is offered by MTA staff and fellow students at tutorials, or as part of the global community of students who can be reached through online student forums and social media sites.

#### International Recognition

Our long established distance learning courses are endorsed by industry associations and our Diplomas are also recognised by the University of Portsmouth.



Course Director

**Ian Biles**

**Managing Director at  
Maritime Services International**

Ian has led the MSI Group to become one of the world's leading surveying and training companies. Ian's qualifications include: Master Mariner, RYA Yachtmaster Ocean, Naval Architect (BEng Ship Science) and Business Management (MA Business Management).

Practically Ian has worked on the new building Moss Rosenberg gas tankers in Mitsui (Northwest Sandpiper) and Mitsubishi (Northwest Stormpetrel), Japan and was part of a multi-disciplinary team which undertook the life extension of the Technigas Methania.



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# LNG Shipping

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**Our Diploma in LNG Shipping allows you to develop specialist knowledge and enhance your career opportunities.**

## About the Course

This course is unique to the LNG Shipping Transportation Industry. It covers all the theoretical and practical aspects of the IMO LNG Training requirements and much more. There is a 25% growth of LNG Carriers as the demand for LNG as a clean fuel continues to grow. There is a desperate worldwide shortage of trained technical personnel to man ships and their support network ashore. The course will help debunk the safety fears that some have, and will assist those who wish to enter a very lucrative and rewarding career in the LNG Industry.

Detailed information on module content is available at [maritimetrainingacademy.com](http://maritimetrainingacademy.com)

## Course Structure

The course consists of 13 modules. All students are required to successfully complete and pass the module assignments. Diploma students will also be required to sit and pass a final examination.

## Who is the course suitable for?

The course is a very useful learning tool for all those who wish to enter the LNG Shipping Transportation Industry. It will also serve to fill in the gaps of knowledge and give a better grounding to those professionals already in the Industry (Captains, Engineers, Navigators, Superintendents, Shipping Company Technical Staff, Ship Inspectors, Flag Administrations, Ship Yards, Repair Yards, Suppliers, Educators, Trainers and Manufacturers).

## How to Enrol

Register as early as you can for a 1st April 2024 start. The registration period will be kept open until the 30th September 2024. Students can start from the point of enrolment after the 1st April 2024.

Complete the application form and send with your payment to enrol for the course to: MTA, Peel House, Upper South View, Farnham, Surrey, GU9 7JN, England.

## Course Enquiries

+44 (0)1252 739779

**[courses@maritimetrainingacademy.com](mailto:courses@maritimetrainingacademy.com)**  
**[maritimetrainingacademy.com](http://maritimetrainingacademy.com)**

## Commencement Date

1st April 2024

## Duration

Maximum of 18 months from the course start date.

## Course Completion Dates

April 2025 and October 2025

## Examinations for Diploma Students

Students have two dates to choose from.

**Dates:** April 2025 or October 2025

**Venue:** UK

**Overseas students:** For overseas diploma students unable to attend our UK examination centre, alternative arrangements can be made to sit the exam in their country of residence. Any additional fees involved will be the students responsibility.

**On passing the Diploma you will receive this badge:**



Please use on your business cards, LinkedIn profiles and any other personal marketing material. You can also use these letters after your name: MTA Dip LNG Ship

## Course Fees

**Diploma - £2,950.00**

This covers the 13 modules as pdfs, student assignment marking, examination costs and the issuing of a Diploma.

**Online Examination - £100**

If students choose to sit their final examination online instead of at an approved venue they will need either a laptop or desktop computer with reliable, fixed line internet connection, working microphone and camera.

**Certificate - £2,150.00**

This includes the 13 modules as pdfs and marking of the student assignments.

**Individual Modules**

£250 - Module content only.

£400 - Module content, assessment and certification.

**Printed Certificate - £50**

“ I have been in the LNG / Gas business for 20 years and I found the MTA course content exceptionally helpful and relevant as it pertains to my current role as Cheniere Marine Coordinator. It also served to refresh my past experience onboard LNG carriers as Chief Mate and Master. ”

*Thomas Laird – Marine Coordinator – Cheniere*

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# Course Syllabus\*

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## LNG Shipping

- » **Introduction to Liquefied Natural Gas Carriers**
  - What is LNG
  - Properties of Methane & LNG
  - World Energy Demand
  - History of LNG Shipping
  - LNG Ships
  - Materials and Strength of Ships
  - Gas Carrier Rules & Regulations
  - Liquefied Gas Carriers
  - LNG as a Marine fuel
- » **International Code for the Construction & Equipment of Ships Carrying Liquefied Gases In Bulk (IGC Code)**
  - Brief Description of International Maritime Organisation (IMO)
  - The LGC Code
  - Gas, LNG Properties and Definitions
  - Ship Survival Capability
  - Ship Arrangements for LNG Ships
- » **LNG Carrier Design and Construction**
  - LNG Carrier Design Factors
  - LNG Carrier Market Supply
  - Hull Form Selection
  - LNG Containment Selection
  - Boil Off Gas Handling
  - LNG Carrier Propulsion Selection
- » **LNG Containment Systems**
  - LNG Containment Systems
  - GTT Mark III LNG Tank Systems
  - GTT NO96 LNG Tank System
  - Moss Spherical Tanks
  - IHI SPB Tanks
  - Other LNG Containment Designs
- » **Carrier Propulsion Systems**
  - Factors For Choosing Propulsion Plant for LNG Carriers
  - Steam Turbine Propulsion Plant
  - Ultra High Pressure And Temperature Turbines
  - Dual Fuel Diesel Electric
  - MEGI (2 Stroke)and 4 Stroke DF Man Engines
  - Coges Plant (Combined Gas Turbine Electric & Steam)
  - Other alternative Propulsion Systems
- » **LNG Cargo Operations**
  - Ship Shore Compatability
  - Mooring And Fendering Installations
  - Cargo Operation Procedures
  - Ship Shore Emergency Shutdown Systems
- » **Custody Transfer**
  - What is Custody Transfer?
  - Measurement Operations
  - Automation, Safety and Control Systems
  - High Voltage Electric Plant on LNG Ships

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» **LNG Accidents**

- Physical Hazards of LNG
- Human Factor Issues in the Marine Industry
- LNG Accidents
- Guidance on Risk Analysis & Safety on LNG Spills
- Mitigation of Risk

» **LNG Ship Management**

- Ship Management System Requirements
- Training and Certification of Seafarers
- International Safety Management Code (ISM)
- The Maritime Labour Convention 2006
- Duties of a Ship Superintendent

» **Flag and Port State Control Inspections**

- Port State Control
- Regions and Co-Operation Between Port States
- Port State Control Inspections
- Deficiencies and Detentions
- Commercial Implications of Port State Detentions
- Maritime Labour Convention

» **LNG Ship Inspections**

- Annual Surveys
- Surveys During Construction of LNG Ships
- Surveys After Construction of LNG Ships
- SIRE Inspections
- Buyers Inspections

» **Firefighting on LNG Ships**

- General Discussion on Fire Safety
- Sources of Ignition
- Fire Suppression
- Fire Control Plans

» **Classification Societies & LNG Ships**

- Definition of Classification Society
- History of Classification Societies
- International Association of Classification Societies
- American Bureau of Shipping (ABS)
- Lloyds Register (LR)
- Indian Register of Shipping (IRS)
- Periodical Surveys of Cargo Installations on LNG Ships
- Current Status of LNG Carriers

# Enhancing Careers for a Brighter Tomorrow

Art on  
Superyachts

Boatyard  
and Marina  
Operations

Health and  
Safety in Ship  
Operations

LNG  
Shipping

Offshore  
Operations

Shipbuilding  
and  
Ship Repair

Superyacht  
Management



Superyacht  
Surveying

Tanker  
Operations

Technical Ship  
Management

Yacht and  
Boat Building



Marine  
Insurance  
Claims

Marine Salvage  
Operations

Maritime Fire  
Prevention,  
Fire Fighting  
and Fire Safety

Maritime  
Law

Port State  
Control

Restoration  
of Historic  
Ships and  
Boats

Marine  
Pilotage

Ship  
Security

Ship  
Surveying

Offshore Wind  
Energy

Superyacht  
Operations

Superyacht  
Project  
Management  
- Refit and  
Newbuilding

Superyacht  
Purser

Yacht and  
Small Craft  
Surveying

Yacht  
Brokerage

Maritime  
Studies

Short Courses



# Terms and Conditions

## The Course

**Teaching Method:** Our courses are delivered by distance learning, unless otherwise stated.

**Course Duration:** Commencing April 2024 you have a maximum of 18 months from the course start date to complete the modules and sit the exam.

## Course Material

**Course Language:** Our courses are conducted entirely in English, in verbal and written format.

**Delivery of Modules:** Available online via your secure student login.

Every effort will be made by the organisers to upload the modules monthly but due to unforeseen circumstances they cannot be held liable for any delays.

**Presentation:** The modules provide the basic knowledge for the whole course. Each module is designed to be self-contained. However, we highly recommend that candidates make every effort to increase their knowledge by reference to other sources.

**Recommended Reading:** A reading list will be provided where applicable.

**Access:** You agree not to access the Course Material for any reason other than for your personal use and solely for the purpose of study. You agree not to distribute any part or parts of the Course Material in any medium without MTA's prior written authorisation.

Access to the course material will be given on receipt of payment. Any outstanding fees will also become payable on accessing the material.

## Student Assignments

**Student Assignments:** One included with each module. They are a compulsory element of the course and must be completed six weeks prior to the exam.

**Self-Assessed Questions:** Some modules contain self-assessment questions designed to help candidates consolidate their knowledge.

**Studying Time:** We recommend 10 to 30 hours study time per module, with additional time being set aside for completing the student assignments.

## Tutor Support

**Tutorials:** Students can choose to participate in a tutorial which will be held before the Diploma exam in **April 2025** and **October 2025**. It is not compulsory but is beneficial and an excellent opportunity to meet fellow students, the Course Director, authors and tutors.

**Tutors & Authors:** To support you during your studies, tutors and authors are available to help with any questions or technical queries by e-mail and student forums.

## Administration

For matters relating to enrolment, payment of fees, change of enrolment details, module mailings, please contact the Course Manager:

Tel: **+44 (0)1252 739779**

E-mail: **courses@maritimetrainingacademy.com**

## Examination

Examinations will be held in **April 2025** and **October 2025**.

A 6 month extension is also available upon application.

**Exam Length:** Three hour written or online examination. All exams are Closed Book.

**Sitting Overseas:** Students must make their own arrangements to sit their examination at a suitable venue approved by the Course Administration Office at least 6 weeks prior to their examination date. Any expenses incurred will be to the students own account.

Alternatively students can sit the examination online instead of at an approved venue. They will need either a laptop or desktop computer with reliable, fixed line internet connection, working microphone and camera.

**Certificate:** Students who successfully complete the compulsory student assignments, but do not take the examination, will receive a certificate if they successfully achieve the required grades to pass.

## The Marking Structure

**Assignments:** Constitute 27% of the final mark.

**Examination:** Constitutes 73% of the final mark.

**Pass Mark:** For the Diploma written examination is 75%. For the student assignments a minimum mark of 40% is required.

## Course Fees

**Certificate Fee:** The basic course fee is **£2,150.00**. This includes the course modules as pdfs and marking of the student assignments.

**Diploma Fee:** For Diploma candidates the fee is **£2,950.00**. This covers the course modules as pdfs, student assignment marking, examination costs and the issuing of a Diploma.

**Online Examination:** For a fee of **£100.00** Diploma students can choose to sit their final examination online instead of at an approved venue.

**Printed Certificate:** On successfully completing the course students will receive their Certificate via email. A printed Certificate can be posted for a fee of **£50.00**.

**Printed Modules Fee:** In addition to the course PDF's, we also offer students the option of purchasing the modules in a hard copy format. Please note, this option is NOT mandatory in order to complete the course. The printed modules option is charged at an additional fee of **£300**.

**Air Courier Fee:** For an additional fee of **£300**. Recommended for candidates in areas experiencing problems with their postal system. Other overseas mail will be sent by airmail only.

**Extension Fee:** If you are unable to complete the course in the 18 months allocated from the start date, you can apply for a further 6 month extension for **£250**.

**Reregistration Fee:** We offer reregistration onto the course for lapsed students at 50% of the course costs. You will have the opportunity to resubmit any student assignments or carry any existing marks forward into the new academic year to be counted towards your final exam results.

**Resit exams:** You are entitled to resit your exam once at a fee of **£250**.

**Not included in the fees:** Any travel or food costs or accommodation if required. Any expenses which may be incurred in arranging a suitable examination venue.

**Discounts:** Available for group registrations. Please contact MTA for details. Tel: + **44 (0)1252 739779** or **courses@maritimetrainingacademy.com**

**VAT:** Will be added at the standard UK rate where applicable. Please contact us for details.

**Reclaiming VAT:** Companies outside the UK may be entitled to reclaim VAT and need to contact their local tax authorities.

## Payment Plan

Please contact us to discuss if the course fees can be split into smaller instalments.

## Payment Methods

**Payment:** Payment must be made upon application by bank transfer or credit card. Fees will be refunded in full should applications be declined.

**Bank Transfer:** MPI Group bank account, National Westminster Bank, 19 Shaftsbury Avenue, London, W1A 4QQ, UK

Account Number: **06532381**  
Sort Code: **56-00-29**

**Credit Card:** Payment can be made securely via the Sagepay link on the invoice or we can arrange for our accounts team to call to take payment by card.

## Cancellation Policy

Cancellations can only be made in writing before the start date of the course. Course fees less an administrative charge of £500 will be refunded. After the start of a course the student becomes liable for all course fees due.

**Course content is subject to change at the discretion of the Course Director.**

## Data Protection

We record your personal information when you contact us and use this to manage registration, study, examination and other services. When you register, we will tell you more about how we process and use your personal information.



Maritime Training Academy

Tel: +44 (0)1252 739779

Email: [courses@maritimetrainingacademy.com](mailto:courses@maritimetrainingacademy.com)

[maritimetrainingacademy.com](http://maritimetrainingacademy.com)



# Application for Enrolment



Please complete in **black ink** and **CAPITAL** letters

Personal Details		
Title:	Forename:	Surname:
Date of Birth:	Nationality:	
Country of Permanent Residence:		
Education/Experience		
Company/Employer:		How many years industry experience?
Your Position:		

Course selection & fees (please tick the course you wish to study)					
Course:	Diploma £2,950	Certificate £2,150	Course:	Diploma £2,950	Certificate £2,150
Art on Superyachts	<input type="checkbox"/>	<input type="checkbox"/>	Ship Security	<input type="checkbox"/>	<input type="checkbox"/>
Boatyard and Marina Operations	<input type="checkbox"/>	<input type="checkbox"/>	Ship Surveying	<input type="checkbox"/>	<input type="checkbox"/>
Health and Safety in Ship Operations	<input type="checkbox"/>	<input type="checkbox"/>	Superyacht Management	<input type="checkbox"/>	<input type="checkbox"/>
LNG Shipping	<input type="checkbox"/>	<input type="checkbox"/>	Superyacht Operations	<input type="checkbox"/>	<input type="checkbox"/>
Marine Insurance Claims	<input type="checkbox"/>	<input type="checkbox"/>	Superyacht Project Management - Refit and Newbuilding	<input type="checkbox"/>	<input type="checkbox"/>
Marine Pilotage	<input type="checkbox"/>	<input type="checkbox"/>	Superyacht Pursers	<input type="checkbox"/>	<input type="checkbox"/>
Marine Salvage Operations	<input type="checkbox"/>	<input type="checkbox"/>	Superyacht Surveying	<input type="checkbox"/>	<input type="checkbox"/>
Maritime Fire Prevention, Fire Fighting and Fire Safety	<input type="checkbox"/>	<input type="checkbox"/>	Tanker Operations	<input type="checkbox"/>	<input type="checkbox"/>
Maritime Law	<input type="checkbox"/>	<input type="checkbox"/>	Technical Ship Management Specialist Module: Marine Superintendent	<input type="checkbox"/>	<input type="checkbox"/>
Offshore Operations	<input type="checkbox"/>	<input type="checkbox"/>	Technical Ship Management Specialist Module: Technical Superintendent	<input type="checkbox"/>	<input type="checkbox"/>
Offshore Wind Energy	<input type="checkbox"/>	<input type="checkbox"/>	Yacht and Boat Building	<input type="checkbox"/>	<input type="checkbox"/>
Port State Control	<input type="checkbox"/>	<input type="checkbox"/>	Yacht and Small Craft Surveying	<input type="checkbox"/>	<input type="checkbox"/>
Restoration of Historic Ships and Boats	<input type="checkbox"/>	<input type="checkbox"/>	Yacht Brokerage	<input type="checkbox"/>	<input type="checkbox"/>
Shipbuilding & Ship Repair	<input type="checkbox"/>	<input type="checkbox"/>			
Optional fees:					
Online examination priced at £100.00 <input type="checkbox"/>					
<b>Certificates:</b>					
Printed certificate £50.00 <input type="checkbox"/>					
Printed Certificate courier fee £25.00 <input type="checkbox"/>					
<b>Modules:</b>					
Printed modules option (in addition to PDFs already included within the course fee, modules to be sent quarterly) priced at £300.00 per course <input type="checkbox"/>					
Modules courier fee £300.00 per course (modules to be sent quarterly) <input type="checkbox"/>					
<b>VAT</b> (to be charged at standard UK rate of 20% where applicable) =					

**TOTAL** £

How did you hear about the course (please state)			
1. Publication		4. Word of mouth	
2. Event		5. Institute	
3. Website link		6. Other	

Correspondence Address:	
	Post Code:
Tel No:	Fax No:
Email:	Mobile:
Billing Address (if different from correspondence address):	
	Post Code:
VAT number (If applicable):	
Tel No:	Fax No:
Email:	Mobile:

Payment (I am paying in full by)	
<input type="checkbox"/>	I am making a payment directly to the MPI Group bank account at: MPI Group, National Westminster Bank Plc, 19 Shaftesbury Avenue, London, W1A 4QQ, UK <b>Account No:</b> 06532381 <b>Sort Code:</b> 56-00-29 <b>Swift Code:</b> NWBK GB2L <b>IBAN:</b> GB35 NWBK 5600 2906 5323 81
<input type="checkbox"/>	I am making a payment by credit/debit card
<input type="checkbox"/>	<input type="checkbox"/> I will pay via the secure Sagepay link on the invoice
<input type="checkbox"/>	<input type="checkbox"/> Please can your accounts team call me for my card details

Declaration	
I confirm that the statements made by me on this form are correct. I agree to abide by the course terms and conditions:	
Signed:	Dated:
Data Protection: We would like to keep you informed of MPI Group's products and services and may also from time to time make your details available to carefully screened companies who may be of interest to you. However, if you specifically do not wish your details to be used, please tick here <input type="checkbox"/>	