



NMCI

S E R V I C E S

The Maritime Training Specialists in STCW, STCW Refresher, OPITO, Simulation, Port and Bespoke Courses



NMCI

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NMCI Services is the commercial division of the National Maritime College of Ireland, Europe's leading third level Maritime College. We are the leading provider of professional Maritime Training & Consultancy. Our strategy is to advance the maritime industry and develop the skills of maritime professionals through the provision of Maritime Training and expert Consultancy of the highest standard.

Our goal is to achieve and deliver excellence to our existing and future customer base. All of our clients are trained by quality professional mariners to the highest standards.

We are committed to the continuous professional development of our staff and believe that safety can only be delivered by the best instructors in the industry.

We can tailor all of our courses to suit your needs and they are all fully compliant with current legislation. We offer a wide range of professional short courses ranging from STCW, STCW Refresher, OPITO, and Simulation to Bespoke Courses and Port Sector Training. Let NMCI be your first port of call for all your training needs.

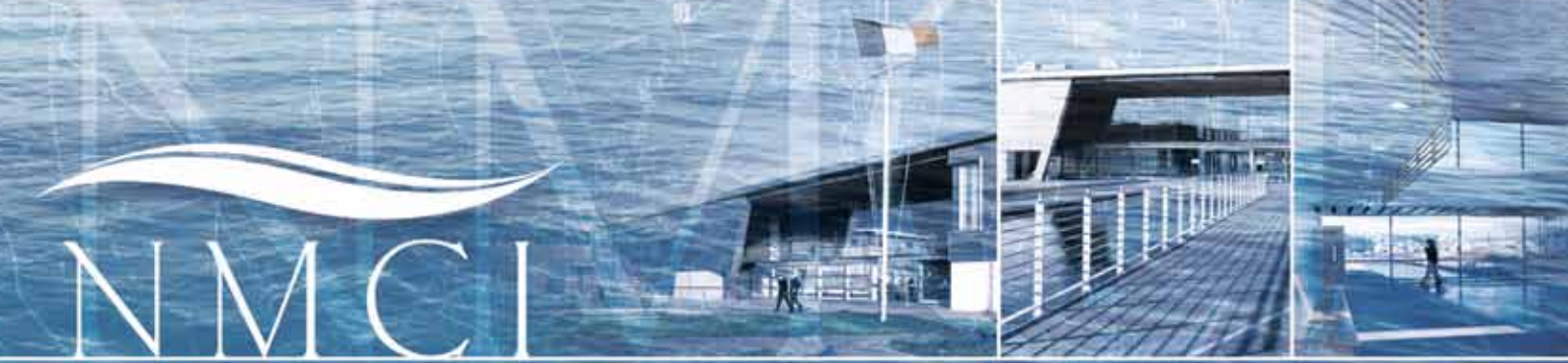
James O'Byrne

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MCA approved STCW Refresher Training

In conforming to the provisions of **STCW Convention Regulation 1/14, and section A-1/14, of the STCW Code**, companies must ensure that seafarers assigned to any of their ships have **completed refresher and updated training as required by the convention**.

If a member of your team is serving on board a ship and is qualified in any of the following, they must, as of the **1st of January 2017**, **have documentary evidence of either having completed the training or updated their training within the last 5 years**.

Seafarers required to hold any of the certificates of proficiency listed shall, every five years, provide evidence of having maintained the required standard of competence to undertake the tasks, duties and responsibilities specified below.



- Updated proficiency in Personal Survival Techniques (STCW Table A-VI/1-1)
- Updated proficiency in Survival Craft and Rescue Boats Other Than Fast Rescue Boats (STCW Table A-VI/2-1)
- Updated proficiency in Fire Prevention and Fire Fighting (STCW Table A-VI/1-2)
- Updated proficiency in Advanced Fire Fighting (STCW Table A-VI/3)
- Updated proficiency in Proficiency in Fast Rescue Boats (STCW Table A-VI/2-2)
- Updated proficiency in Medical Care Aboard Ship (STCW Table A-VI/4-2)

What this means for you & your organisation

From **January 1st 2017**, Port State Control Officers will require seafarers to provide **documentary evidence of having maintained the required standard of competence** to undertake the tasks, duties and responsibilities listed above. Presenting the documentary evidence obtained on completing an **MCA approved refresher course with us** will meet this requirement.

All companies are required by STCW Reg 1/14 to ensure that seafarers assigned to any of its ships have received refresher and updating training required by STCW.



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STCW & NON STCW

The International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW) 1995 sets qualification standards for Masters, Officers and Watch personnel on seagoing merchant ships. The STCW 95 courses and modules form part of the statutory requirements for both deck and engineering qualifications. It is a globally recognized qualification for working onboard commercial fishing vessels over 24m and on merchant vessels of over 500GT.

Before being assigned any shipboard tasks, anyone employed or engaged in any capacity on board a ship with designated safety or pollution-prevention duties, will be required to successfully complete the basic suite of STCW approved training appropriate to their duties and functions.

The four basic safety training elements are:

- Personal Survival Techniques (STCW Table A-VI/1-1)
- Fire Prevention and Fire Fighting (STCW Table A-VI/1-2)
- Elementary First Aid (STCW Table A-VI/1-3)
- Personal Safety and Social Responsibilities (STCW Table A-VI/1-4)

Other STCW & NON STCW Courses we offer:

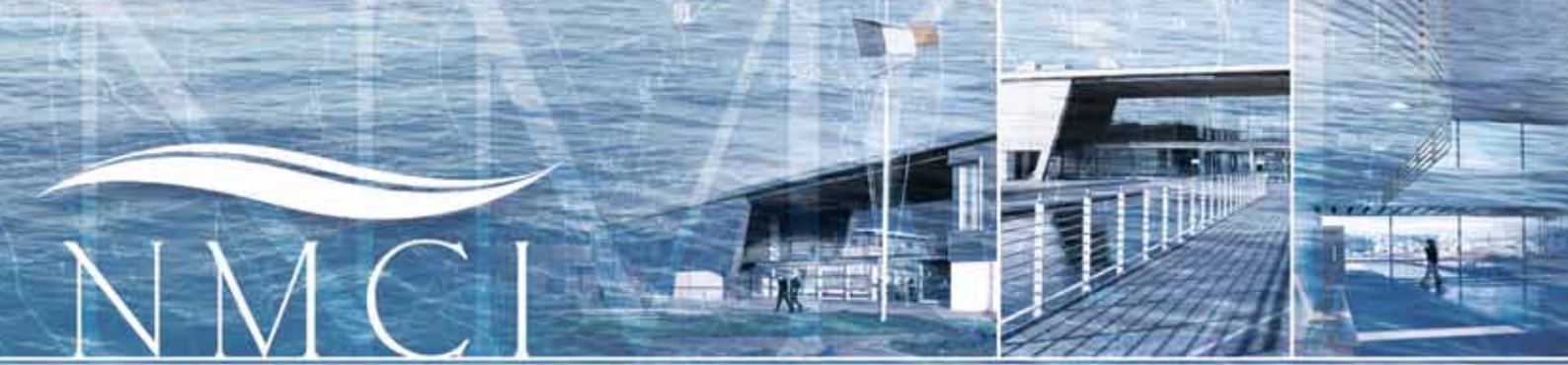
- Medical Care Training Aboard Ship - STCW Compliant
- Medical First Aid Training Course – STCW Compliant
- Helicopter Underwater Egress Training (HUET) STASS
- STCW Designated Security Duties
- Elementary First Aid Course (EFA) STCW

New Courses:

- High Voltage (Management)
- Proficiency in Security Awareness
- Crowd Management on Passenger Ships



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OPITO Offshore Training

We are an **OPITO approved training provider** with world class state of the art facilities, of which in excess of \$100 million dollars has been invested. All our instructors have relevant Offshore or Maritime experience. The fact that there is **no VAT** on training services in Ireland, favourable EURO/GBP foreign exchange rate and **excellent connectivity to UK/Europe** makes us a very cost effective Offshore Training Centre option from small companies to oil majors to multinationals alike.

OPITO Approved Courses Available:

- Minimum Industry Safety Training (MIST)
- Helicopter Underwater Escape Training and Emergency Breathing Systems (HUET & EBS)
- Basic Offshore Safety Induction & Emergency Training (BOSIET)
- Compressed Air Emergency Breathing Systems (CA-EBS)
- Further Offshore Emergency Training (FOET)
- (TEMPSC) Further Offshore Lifeboat Coxswain Training -Refresher
- (TEMPSC) Offshore Lifeboat Coxswain Free-fall Supplementary Training
- (TEMPSC) Offshore Lifeboat Coxswain Initial Twin fall and free fall Training



Bespoke Courses

We offer bespoke courses to meet the needs of all of our clients, these courses include; Fixed Wing Underwater Egress Training, HUET STASS and Basic Fire Fighting, Rib Capsize and Casualty Handling, Rib Operator, Shipboard Familiarisation, Team Building, Shallow Water Confined Space training and Free-fall Lifeboat, amongst others.



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Simulation

The NMCI boasts one of the largest simulation suites in Europe if not the world. This comprises of the following Kongsberg Simulators:

360° FULL-MISSION BRIDGE SIMULATOR

- 360° full-mission bridge simulator
- 270° full-mission bridge simulator
- 3 x auxiliary 150° bridge simulators
- 12 x NARAS-O/Fleet work simulators
- Vessel Traffic Service simulator at 3 control positions



270° FULL-MISSION BRIDGE SIMULATOR

- 6 Bridge ECDIS Suite
- 1 x 12 station GMDSS Suite



Simulation Courses

We deliver **bespoke courses** which are tailored to individual client needs because we recognise that each client is different. We primarily utilise our 360° full mission bridge to provide, amongst others, **specialised ship handling courses**. These include;

- Pilot Training
- Ship Specific Training
- Propulsion Specific Training
- Port Specific Training

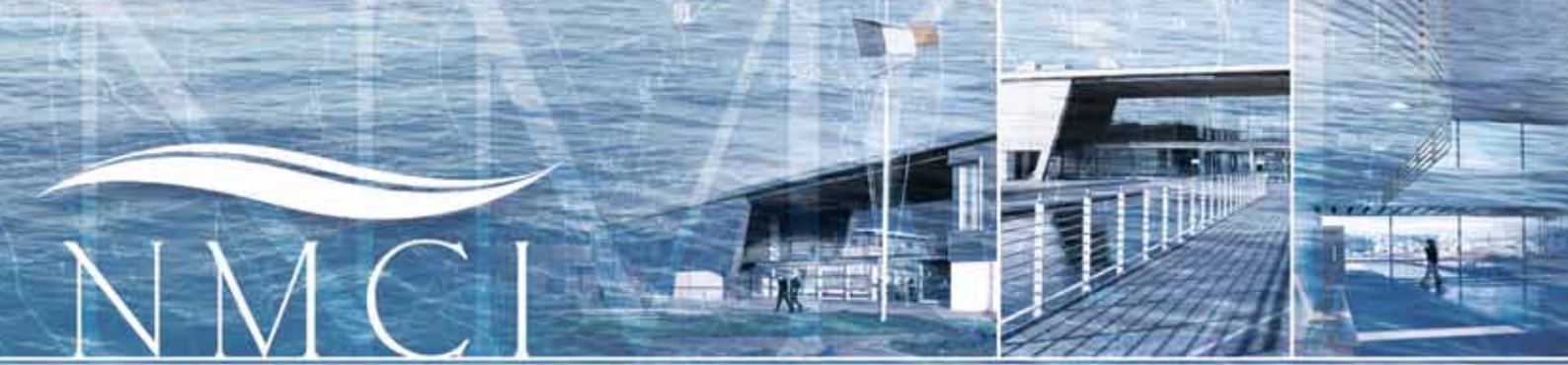
Specialised Operations such as;

- Ship to Ship Transfer
- Human Element Training
- Replenishment at Sea for Seismic Industry

Our in-house capabilities in **visual & hydrodynamic modelling** means there is no limit with regard to vessels or ports that can be simulated.



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In addition to enhancing our courses, the modelling capabilities allow us to offer the facilities for manoeuvring and port development studies.

Our extensive expertise in various simulation systems allow us to also offer **consultancy services in all aspects of simulation; design, purchase, and installation, together with the capability to course preparation, documentation and delivery.**

We also deliver approved courses such as;

- ECDIS Operator Electronic Chart Display
- VTS Nautical Knowledge (Module 4)
- VTS- V-103/1 VTS Operator -Simulation
- VTS- V-103/1 Operator Underpinning Knowledge
- Kongsberg Type Specific Training

We are **constantly developing new courses** based on client enquiries and industry demands.

Our suite of bridges is enhanced and complimented by extensive engine and cargo simulation.

- Full Mission Engine Room simulator with low and high speed diesel engine models
- 20 student workstations for Engine Room systems simulations
- Liquid cargo handling simulators at 11 student workstations

These allow us to offer **combined simulator exercises**, and in addition, the process training that the engine and cargo simulators are suited for.

Liquid Cargo

We are able to offer specialised liquid cargo simulator courses for Oil, Gas & Chemical cargoes such as:

- Liquid Cargo Operations Simulator (LICOS) (LNG)



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Petrochemical, Oil, & Commodities

GAC Training and Service Solutions (GTSS) deliver courses tailored to suit the specific training requirements of maritime companies and groups. Courses can take place at the NMCI, at the client's premises or any other location, providing precisely tailored hands-on, simulation-based and academic solutions to suit each client's needs, location and preferences.

Recognising that optimally trained staff can crucially reduce physical, environmental and financial risks GTSS serves the LNG and Tanker markets as well as other commodity and maritime sectors.

Courses we offer:

- A Complete Guide to Bunkering
- Dry Cargo Operations and Chartering
- Oil and Shipping Operations
- Oil Tanker Operations in Port
- An Introduction to Liquefied Petroleum Gas (LPG)
- Liquefied Natural Gas (LNG) Carrier Operations in Port
- Understanding LNG
- Seismic Replenishment at Sea (RAS) Operations
- Enclosed Space Entry
- Port Research & Development
- Ship to Ship (STS) Transfer Commercial Training Course
- Ship to Ship (STS) Transfer Operations
- Actions to be Taken to Prevent Acts of Piracy and Armed Robbery
- Rummage Training
- Maritime Leadership & Managerial Resource Course (MLMRC)



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Port Sector Training

The Port of Cork (POC) and the NMCI have signed a strategic partnership alliance focused on delivering a suite of courses specifically aimed at the port sector. Cork is the first port in Ireland to offer such training programmes, pushing the Port of Cork to the forefront of industry training.

Drawing upon the expertise of both professionals and college lecturing staff, the partnership delivers much needed training to the industry through the use of port facilities and modern simulation equipment in the areas of navigation, bridge training and crane operations through 'KraneSIM'. KraneSIM is an advanced Seaport Cargo Handling Crane Simulator designed to meet the training requirements of Ports, Stevedoring & Cargo Companies, Shipping Companies and Training Organisations for general container handling and specific crane operations training related to combined vessel loading and unloading operations. The facilities fully comply with the most up to date international standards and requirements.



Port sector training courses include;

- Container Gantry Crane Operation
- Mobile Dockside Crane Operation
- Pilot Refresher
- Container Gantry & Dockside Crane Operator Induction
- Harbour Mobile Crane Operation

We also offer bespoke training to suit individual client requirements.



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Cadet Training at the National Maritime College of Ireland (NMCI)

Cadet Training is delivered through 3 Degree Programmes here at the NMCI;

- **Bachelor of Science in Nautical Science**
- **Bachelor of Engineering in Marine Engineering**
- **Bachelor of Engineering in Marine Electrotechnology**

All courses are run in the state of the art facility in Cork Harbour incorporating full mission simulation and extensive survival training facilities. All of our cadets are trained in our \$100 million dollar state of the art facility which is located 1 mile from Cork Harbour with great connectivity to Europe.



Maritime Liaison Office

What we can do for you:

- Dedicated full time Maritime Liaison Officer acting as the NMCI's main point of contact for ship operators providing training berths to Cork Institute of Technology Deck, Engine and ETO Cadets.
- Facilitate collaboration between the NMCI and the training provider by creating a supportive environment for cadet reps and training providers alike.
- Conduct Annual Training Provider Workshops to coincide with our Annual Open Day.
- Open Interview process available to all companies.
- Annual company visits.
- Sponsorship/Placement specific Memoranda of Understanding is provided to each Shipping Company /Training Provider.
- Maintain a quality support system between the NMCI and the Shipping Company/Training Provider.
- Provide up to date information and regular forecasts on available cadets in support of placement of cadets/trainees.



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What we do for our students:

Peer Assisted Learning and Support Initiative: A peer mentoring programme with the primary objective to improve the first year student experience of college through an academic and social mentoring approach.

Provide all students with the NMCI Student Manual, which is designed to offer guidance to the student on their course of study, the course requirements, work placement and NMCI policies.



What's different about NMCI cadets?

Irish cadets are cost neutral, no expectation on companies to pay for Irish cadets whilst attending the NMCI.

STCW mandatory training provided, with further specialised courses upon company request. i.e. Basic Oil & Chemical Tanker

All Officer Candidates:

- PSSR
- Basic Sea Survival (PST)
- Basic & Advanced Fire Fighting
- Medical First Aid
- Medical Care
- CPSC
- Security Awareness
- ISPS & Safety Officer
- ISM

Mature English speaking cadets

Support towards sponsorship costs available from the Irish Government through the ISEAS Grant

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Irish Seafarers Educational Assistance Scheme (ISEAS)

The IMDO administers the ISEAS grant on behalf of the Department of Transport, Tourism and Sport (DTTAS)

Irish Maritime Development Office (IMDO)

Extent of Support of ISEAS 1:

It provides support towards the attainment of first certificates of competency following approved training programmes at the National Maritime College of Ireland.

The overall maximum figures in support of seagoing training towards the attainment of the 1st Certificate of Competency are:

- **Bachelor of Science in Nautical Science - Deck: €5250/Cadet (15 months)**
- **Bachelor of Engineering in Marine Engineering - Engine: €3150/Cadet (9 months)**



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Team Building

NMCI Services provides Team Building courses to suit clients from all areas of industry. These courses can involve group exercises in our environmental pool, damage repair unit and our 360 degree bridge simulator. This high end team building program involves both outdoor and indoor challenges and problem solving.

An array of activities can be offered as part of the Team Building course offered at the NMCI which will meet the needs of each individual client. Our course offers your team an opportunity to improve listening, communication, adaptation, confidence and leadership skills, just to mention a few. We can simulate heavy weather conditions in our Environmental Pool i.e. with thunder, lightning, rain, wind and waves or have your group navigate a complex set of shipping channels in our "Class A" 360 Degree full mission bridge simulator. All our team building activities require quick thinking, high levels of communication and team work due to the rapid nature of the day's events. Remember no matter what industry you and your team work in we can tailor a specific team building day to meet your needs. With a varied level of activities and an array of wet and dry events to choose from you will be spoilt for choice.

Level 1: Fun & Enjoyable day out in a relaxed atmosphere

Level 2: Competitive

Level 3: Boot Camp Style



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Facilities

Our state of the art facilities include;

Navigation Simulators

- 360° full-mission bridge simulator
- 270° full-mission bridge simulator
- 3 x auxiliary 150° bridge simulators
- 12 x NARAS-O/Fleet work simulators
- 1 x 12 station GMDSS suite
- Vessel Traffic Service simulator at 3 control positions
- 6 station ECDIS Suite

Engineering Simulators

- Full mission Engine Room simulator with low and high speed diesel engine models
- 20 station Engine Room system simulator
- 11 station Liquid cargo handling simulator

Marine Communications

- 1 x 12 station GMDSS suite
- Live training equipment
- Simulated specialized communication equipment

Sea Survival Pool

This is a 20m x 8m indoor pool where the temperature is maintained at 21°C. It has a depth of 5m at its deepest end, which extends for 7.5m, and a depth of 2.5m at the shallow end.

The environmental conditions which can be created include:

- Waves
- Wind
- Rain
- Thunder and lightning
- Day and Night capability

Equipment and facilities at the environmental pool include:

- A dive tank (8m deep, 4m diameter) for training divers in underwater burning and welding
- Helicopter Underwater Escape Trainer (HUET) for ditched helicopter evacuation training



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- Marine evacuation system (MES) including landing platform
- A large variety of inflatable life rafts and associated equipment
- Pool side safety equipment
- Numerous survival equipment display boards
- Jumping platforms at 1, 2, and 4 metre heights
- A comprehensive selection of dry suits, wetsuits, life jackets and Personal Flotation Device's
- Life raft repair room
- Divers workshop
- Changing rooms with showers, lockers and WC's
- Disabled changing facilities

Jetty Facilities

- 25 person free-fall enclosed lifeboat
- 36 person totally enclosed lifeboat with offshore davits and fire and gas protection
- 36 person totally enclosed lifeboat with gravity fall drop
- 21 person open lifeboat
- A 6 metre Fast Rescue Craft with inboard jet drive
- Two 4 metre safety boats with 25 hp outboard engine
- A Caley Davit system
- A 20 metre pontoon with link span to jetty
- A slipway with winch facilities

Fire Fighting

Natural gas is the main fire supply in the Fire Training Unit (FTU), but the burning of kerosene in the engine room is an extra option. While gas fires are burning, synthetic smoke can also be generated in these areas to simulate real fire situations. An instructor uses plug-in pendants to control all gas fires at the source and monitors all students' actions. An inbuilt control room is manned during all training sessions to maintain radio contact with trainees and to monitor ventilation, fires and emergency lighting. The damage control reconstruction unit is also housed within the fire training unit and it is used to simulate flooding damage to a ship. Delegates learn how to limit the damage and control the flooding.



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Marine Engineering

Engine Room

- A full sized working ship's engine room
- 1140 kW MaK 6M20 medium speed diesel engine
- 2 Caterpillar alternators
 - (i) 3406 in line
 - (ii) 3408V-type
- A fully instrumented ship's engine control room

Engine room simulators

- Full engine control room simulator
- Liquid cargo handling simulator for Oil, Gas & Chemical

Workshops

- Welding workshop
- Electrical Plant Workshop
- Mechanical Engineering Workshops equipped with milling machines and lathes.

Laboratories

- Automation and Control Laboratory – computing equipment linked to logic controllers and modular network construction kits, a robot arm
- Physics and Instrumentation Laboratories


Other

- Ancillary Plant
- Refrigeration Unit
- HVAC trainer
- Reverse Osmosis Water treatment plant
- Oily Water separator
- Sewage Treatment Plant
- Garbage Disposal
- Fresh water generator
- Fuel oil purifier
- Lube oil purifier
- Fully functional Fo'c'sle head



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