Warsash Maritime Academy has been responsible for the training of Merchant Navy officers since 1946. As part of Solent University we are fully equipped to provide professional and vocational maritime education and training that meets all the current national and international standards.

Officer cadet training schemes are a unique proposition. They provide a fully financed solution to higher education, resulting in a foundation degree or HND qualification, with the opportunity to top up to an honours degree. This brochure outlines the structure and benefits of the officer cadetship in a dynamic and fast-moving industry.

The courses we offer cover a wide range of seafarer maritime education and training – from deck, engineering and electro-technical officer cadetships to senior officer certificates of competency, together with the associated safety training.

The tuition of officer cadets is now located in Southampton City centre at the University’s St Mary’s campus – a distinct modern teaching environment exclusively for seafarers studying for their first Certificate of Competency.

Officer cadets and students enrolled on our courses can take full advantage of the extensive facilities and services offered by the University.

The Academy is dedicated to the training of seafarers and, with its range of training and recreational facilities, is ideally placed to give you the best possible start to your maritime career.

Captain Syamantak Bhattacharya
Director, Warsash School of Maritime Science and Engineering
ABOUT US

WHO WE ARE
Warsash Maritime Academy has provided first-class education, training, consultancy and research services to the international shipping, commercial yacht, and offshore oil and gas industries for over 70 years.

We benefit from a strong organisational and quality assurance infrastructure which enables us to maintain exceptional standards of service delivery.

We are a world renowned maritime teaching establishment, and part of Solent University’s Warsash School of Maritime Science and Engineering which includes an extensive portfolio of maritime and engineering qualifications ranging from HND to PhD. The University trains professionals who make a contribution at sea and ashore in ship operations, port management, yacht and powercraft design, maritime business, and logistics.

WHAT WE DO
We deliver high-quality provision for the maritime industries to meet the growing international demand for crew, officers and captains who are trained to the highest professional standards.

The Academy offers internationally recognised certification programmes for deck (navigation), marine engineering and marine electro-technical officers, from initial entry as an officer cadet up to Master (Captain), Chief Engineer and Chief Electro-Technical Officer level.

We also provide a range of short safety courses (mandatory and non-mandatory) to all maritime personnel for the development of key skills such as fire fighting and sea survival. Continuous professional development modules are offered for more experienced officers.

The Academy pioneered the use of bridge, engine room and liquid cargo operations simulators for higher level training and our specialist Ship Handling Centre training facility is the only one in the United Kingdom.
As the UK’s centre of maritime excellence, the quality, range and scale of training facilities offered by the Academy for students in the maritime industry are unmatched worldwide.

Our first-class training facilities include bridge simulators, a ship handling centre, a full mission engine room simulator, engineering and electro-technical workshops, survival craft facilities, a fire school, a radio communications centre, a seamanship centre, a nautical library and IT suites.

The University’s student residences offer comfortable self-catered accommodation in Southampton. Our officer cadets also have access to all facilities on offer at the University’s main campus, including: 24-hour library, learning resource centre, sports facilities, student union events, food outlets and cafés.

Further information about all of our training and facilities can be accessed on our website at: www.warsashacademy.co.uk/facilities

“The TOP TRAINING DESTINATION

A job as a ship’s officer really offers the full package: responsibility, excellent career opportunities, travel, competitive pay and the list goes on. I definitely recommend this career to any aspiring young person.”

Joe
Deck officer cadet
CAREERS IN THE SHIPPING INDUSTRY

The international shipping industry offers an adventurous lifestyle, packed with exciting and well-paid career prospects, in a dynamic and growing environment. It provides challenges and responsibility for those who want more from a career than the usual ‘nine to five’ routine.

To succeed in a seagoing career, you will need to combine technical skills with a range of robust personal qualities. A career at sea brings with it a wealth of opportunities, providing individuals with the training and experience for a lifetime of rewarding challenges, either at sea or ashore.

While many will aspire to reach the ranks of Captain, Chief Engineer or Chief Electro-Technical Officer aboard a ship, others may decide to move ashore. There are many opportunities available for experienced ship’s officers on shore, in both the international shipping industry and related fields, such as shipping management, port management, ship broking, maritime law and surveying.

With a long and proud maritime heritage, the United Kingdom remains a major force in the global maritime industry, and commercial shipping is a significant contributor to its economy.

Officers with UK Maritime and Coastguard Agency (MCA) certificates of competency enjoy an excellent reputation throughout the world, enhancing future employment opportunities.

TEN GREAT REASONS TO TRAIN AS A SHIP’S OFFICER:

1. Enjoy an exciting lifelong career
2. Work with the latest technology
3. Travel the world
4. Gain responsibility at an early age
5. Gain academic and professional qualifications
6. Get paid while training
7. Course fees are covered by sponsoring shipping companies
8. No tuition fee loan
9. Get an excellent salary and ‘tax-free’ prospects
10. Enjoy a great holiday entitlement
THE MERCHANT NAVY

The Merchant Navy is the name given to the international commercial shipping industry. It is made up of a large number of shipping companies who recruit civilians as crew (officers and ratings), who are known as merchant seafarers.

Shipping companies vary greatly in the size and type of ships, their cargos and the areas of the world where they operate. Their trade routes may take them to every continent and across every ocean on the globe.

The types of modern merchant ship include:
- Container ships
- Cruise liners
- Oil/gas tankers
- Chemical carriers
- Bulk carriers
- Cable layers
- Ro/Ro ferries
- Car carriers
- Oil-rig supply vessels
- General purpose cargo ships
- Royal Fleet Auxiliary vessels
- Superyacht private vessels

MARITIME AND COASTGUARD AGENCY

The Maritime and Coastguard Agency (MCA), part of the Department for Transport, is the government agency responsible for issuing navigation, engineer and electro-technical officers’ certificates of competency (CoC).

A CoC is gained following an oral examination by the MCA upon the successful completion of the officer cadetship and is effectively the ‘passport’ to a seagoing career. The MCA also ensures compliance with international standards of training and professional conduct in consultation with other national and international authorities.
THE ROLE OF A SHIP’S OFFICER

WHAT MAKES A SUCCESSFUL SHIP’S OFFICER?

A successful ship’s officer requires particular personal qualities in order to handle the demands of the profession. The ability to manage spending time away from home and to be tolerant whilst living in close quarters with other crew members is essential.

Ship’s officers demonstrate the following qualities:

• Decisiveness
• Self-reliance
• Calmness
• Self-discipline
• Initiative
• Good team member
• Adept and versatile
• Effective communication skills

Deck (Navigation) Officer

Under the Captain’s direct management, the deck department is responsible for the safe navigation and operation of the vessel, both at sea and in port. While the safety of the vessel and everyone on board is the prime responsibility, all deck operations and maintenance are also managed by the team.

Deck officers are a vital part of the onboard management team, taking charge of an expensive vessel and its equally valuable crew and passengers. Deck officers maintain watches on the bridge at sea and about the ship in port. They are responsible for passage planning, the safe navigation of the vessel, cargo loading and discharge, ship stability, communications and the maintenance of the hull and deck equipment.

The ship’s Captain, or Master, is in overall command with ultimate responsibility for the safety of the crew, vessel, cargo and environment. Only navigation officers can be promoted to the rank of Master.
Marine Engineering Officers
The engineering department is responsible for the safety, performance and efficiency of the vessel’s machinery. It is their job to maintain the mechanical and electrical operations, ensure that robust maintenance schedules are implemented and troubleshoot problems effectively and efficiently.

Marine engineering officers are responsible for the maintenance and operation of the ship’s main propulsion machinery and auxiliary plant, including deck machinery, air conditioning plants, refrigeration plants and domestic and electrical services. Depending on the type of ship and the operational circumstances, engineering officers will be required to keep watches in the ship’s engine room.

The Chief Engineer is in charge of the department and is responsible to the ship’s Master for its efficient operation. Whilst the law demands that only one person can be in overall command of the ship – and by tradition that person is the Master – the Chief Engineer status and salary is comparable to that enjoyed by the Master.

Marine Electro-Technical Officers (METOs)
These specialist officers work within the engineering department where they take particular responsibility for the maintenance of onboard control engineering and electronic systems including propulsion control, radio communications and electronic navigation aids.

With the increased use of modern technologies at sea, demand for METOs is rapidly growing to manage and maintain the sophisticated range of electrical, electronic and engineering equipment at sea.

METOs will have the opportunity to develop their careers along a professional electrical and electronic engineering pathway, leading to the rank of Chief Electro-Technical Officer, Chief Technical Officer or Electrical Superintendent, depending on the company they work for.

A UNIQUE LIFESTYLE
No matter what kind of vessel you join, as a ship’s officer you will experience life in a completely different way. Officer cadets will be working at sea within a few months of joining their company, as soon as they have completed their introductory training phase at the academy.

The lifestyle at sea will depend on the type and trading pattern of each ship but there are usually great opportunities for global travel. The food and accommodation on board is excellent, with single cabins and en-suite facilities for officers on many vessels.

Holiday, pay, welfare and benefits vary from company to company but are generally excellent. For example, after a voyage lasting four months, a qualified officer could get two months’ holiday or more. Many UK nationals also benefit enormously from tax-free status, provided they meet the associated requirements.

"My time at sea last year was one of the best experiences of my life – I saw places that I never thought I’d see and made great friends who will be friends forever."

Emma,
Marine engineer cadet
OFFICER CADET TRAINING SCHEMES

PROFESSIONAL AND ACADEMIC QUALIFICATIONS

To become an officer in the Merchant Navy, you must undertake an officer cadet training scheme programme, which involves academy-based education integrated with periods of practical training at sea. The maritime education and training must be completed in order to achieve professional seafaring certification and related educational qualifications.

We offer a number of three-year officer cadet training programmes approved by the Merchant Navy Training Board (MNTB). All of the programmes lead to professional certification by the MCA and, depending on the route followed, one of the following academic awards:

**Deck Officer Cadets**
- Foundation Degree (FdSc) in Marine Operations
- Higher National Diploma (HND) in Nautical Science

**Marine Engineer Officer Cadets**
- Foundation Degree (FdEng) in Marine Engineering
- Higher National Diploma (HND) in Marine Engineering

**Marine Electro-Technical Officer Cadets**
- Foundation Degree (FdEng) in Marine Electrical and Electronic Engineering

These qualifications fulfil the academic requirements for the award of the MCA certificate of competency as Officer of the Watch (OOW) for deck/engineer officers; and, for METOs, the award of METO certification, following MCA oral examination.

The Foundation Degree and HND qualifications also provide the underpinning knowledge for the higher grade certificates of competency (Chief Mate and Master, or Second Engineer and Chief Engineer).

**Honours Degree ‘Top-Up’**
Upon successful completion of the Foundation Degree or HND programme, candidates will also have the opportunity to top up their academic qualification to an honours degree.
APPLICATION AND SPONSORSHIP FOR AN OFFICER CADETSHIP

All UK officer cadet training schemes are financed or sponsored by a number of shipping companies and maritime recruitment specialists, in order to complete the sea-time elements of the training programme.

The benefits are excellent, as the sponsorship covers the cost of course tuition fees and provides a salary or training allowance to officer cadets throughout their training. Anyone wishing to undertake an officer cadetship should apply directly to the shipping companies and their representatives, not to the academy or UCAS.

Companies normally start the recruitment process around January each year for entry in the following September or January. Companies conduct their communication and interview process directly with the applicant.

A full list of sponsoring shipping companies can be found at www.warsashacademy.co.uk/recruitment/officer-cadets/our-recruitment-partners

"I found the experience of joining a ship for the first time challenging at times; however, the continued training and support from the sponsoring company and the academy meant I soon started to gain knowledge and skills in order to become a marine engineer."

Malcolm
Third Engineer Officer
ENTRY CRITERIA

Qualifications
In order to be accepted on the Foundation Degree or HND officer cadet training scheme, you will need to have obtained the following minimum qualifications:

Foundation Degree (A-Level or equivalent) – 3 years
- A minimum of 48 UCAS tariff points (for engineering, including a numerate subject)
- Plus GCSE at grade 9 to 4 (A* to C) in the following subjects:
  - Mathematics (preferably Higher Tier)
  - English
  - Science (with significant Physical Science content)

Higher National Diploma/Certificate (GCSE level or equivalent) – 3 years
- Four GCSEs at grade 9 to 4 (A* to C), including:
  - Mathematics (preferably Higher Tier)
  - Science (with significant Physical Science content)
  - English or a subject using English (for example, history, geography, RE)

Or
- Passes in four subjects in the Scottish Certificate of Education (as above)

Or
- Passes in four subjects in the Northern Ireland Grammar School Senior Certificate Exam (as above)

The qualifications detailed above are the industry minimum, but individual companies may require a higher standard.

UCAS tariff for access to degree courses
The industry uses the UCAS tariff points system to help you work out your qualifications, to see if you meet the entry requirements. The 48 UCAS points required for the maritime Foundation Degree programmes can be made up of any combination of qualifications.

To work out how many points your qualification is awarded, we recommend that you visit the UCAS website, listing all FE qualifications. You can log into the tariff calculator at

www.ucas.com/ucas/undergraduate/getting-started/entry-requirements/tariff/calculator

Medical requirements
Officer cadets must be in good health and capable of passing the Merchant Navy Medical Examination (ENG1). Navigation officer cadets must also have normal colour vision and be able to pass the MCA sight test, although corrective lenses may be acceptable in certain cases.

Anyone contemplating a career as a ship’s officer would be well advised to take a medical examination and sight test as soon as possible to find out if there are any physical bars to their career aspirations. The MCA holds a list of approved doctors throughout the UK who are able to provide ENG1 seafarer medical examinations. This list can be found at www.gov.uk/government/publications/mca-approved-doctors-uk-based

Nationality
British shipping companies will normally only recruit UK or European Union nationals. However, the MCA certificates of competency may be awarded to people of any nationality and the training programmes are open to all.

A potential international candidate from outside the UK and EU should secure sponsorship from a suitable shipping company that will be able to provide appropriate sea service as part of the cadetship programme.

International students should also hold a formal International English Language Testing System (IELTS) certificate of at least 5.5, as a good knowledge of written and spoken technical English is required to commence the programme.
OFFICER CADET PROGRAMME

Officer cadet training programmes consist of a number of training phases, alternating between time at the academy and time at sea on board one of the shipping company’s vessels. The detailed course programmes are outlined on the following pages, but a brief summary of officer cadet training is as follows:

**Year 1 – Phase one**
Training starts at the academy and is designed to give officer cadets the necessary skills and academic underpinning knowledge (UPK) required for professional certification by the MCA and to operate safely at sea. Officer cadets also undertake specific safety courses required by international convention.

**Year 1 – Phase two**
Training is at sea, gaining practical shipboard experience. In the deck department, an officer cadet will work alongside ratings and under the supervision of qualified officers, developing practical navigation and other ship operation skills. In the engineering department, qualified engineering and electro-technical officers will help officer cadets put their academic theory into practice.

**Years 2 and 3 – Phases three, four and five**
Training alternates between shore-based studies at the academy for underpinning knowledge and specialist short courses, and work at sea for professional development. Greater responsibility is given as training progresses. Phase five includes the final examinations and assessments required to complete the cadetship.

‘‘No two days are the same. One day I might be crossing the Atlantic with no other ships in sight. A few days later I might be negotiating the Dover Straits, the busiest shipping lane in the world.’’

Christopher
Third Officer
# DECK (NAVIGATION) OFFICERS – DEGREE PROGRAMME

<table>
<thead>
<tr>
<th>ACADEMY PHASE</th>
<th>DURATION</th>
<th>CONTENT</th>
</tr>
</thead>
</table>
| Induction     | 3 weeks  | • Freshers’ week and general induction to the shipping industry  
               |          | • Assessment for entry to degree programme  
               |          | • STCW pre-sea courses  
               |          | • Introduction to EDH/PSC&RB and EES familiarisation |
| Phase 1       | 22 weeks | FdSc units: Maritime Analytical Methods, Navigation, Ship Operations, Meteorology, Cargo Operations |
| Phase 2       | 25 weeks | Work-Based Learning (Operations Level)  
               |          | MNTB Deck Training Record Book |
| Phase 3       | 24 weeks | FdSc units: Meteorology, Cargo Operations, Voyage Planning, Shipboard Management, Marine Operations, Command Management  
               |          | NAEST(O) preparation/assessment |
| Phase 4       | 56 weeks | Work-Based Learning (Management Level)  
               |          | MNTB Deck Training Record Book |
| Phase 5       | 5 weeks  | Consolidation of Work-Based Learning and any outstanding academic assessments prior to the award of:  
               |          | **Foundation Degree (FdSc) in Marine Operations** |
| Phase 5       | 10 weeks | STCW courses: AFF, EDH, MFA, GMDSS, NAEST(O), PSC&RB, HELM(O)  
               |          | MCA orals preparation  
               |          | End of cadetship  
               |          | Successful completion of the MCA oral examination leads to the award of:  
               |          | Officer of the Watch MCA Certificate of Competency |

## ACADEMY PHASE  

<table>
<thead>
<tr>
<th>DURATION</th>
<th>TOP UP TO BSC (HONS) DEGREE – OPTIONAL</th>
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</thead>
</table>
| Phase 6  | 15 weeks  
               | **Bachelor of Science (Bsc) Honours Degree**  
               | Core units: Work-Based Project, Maritime and Commercial Law, Maritime Issues in the Contemporary World  
| Phase 7  | 12 months  
               | Complete blended learning elements of core units  
               | Complete Project (up to 12 months to complete)  
               | Successful completion of all units leads to the award of:  
               | **BSc (Hons) Degree in Marine Operations Management** |
| (At Sea/On Leave)  
               | Blended Learning with Tutorial Support |
# DECK (NAVIGATION) OFFICERS – HND PROGRAMME

<table>
<thead>
<tr>
<th>Phase</th>
<th>Duration</th>
<th>Content</th>
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<tbody>
<tr>
<td>Induction</td>
<td>12 weeks</td>
<td>• Freshers’ week and general induction to the shipping industry</td>
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<tr>
<td></td>
<td></td>
<td>• HE Entry Course, including: Academic Study Skills, Mathematics</td>
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<td></td>
<td></td>
<td>Foundation and Introductions to Navigation, General Ship Knowledge,</td>
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<td></td>
<td></td>
<td>and Ship and Port Operations</td>
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<td></td>
<td></td>
<td>• STCW pre-sea short courses</td>
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<td></td>
<td></td>
<td>• Introduction to EDH, PSC&amp;RB and EES familiarisation</td>
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<tr>
<td></td>
<td></td>
<td>Successful completion of the HE Entry Course leads to the award of:</td>
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<tr>
<td></td>
<td></td>
<td><strong>NcFE Level 3 Diploma in Nautical Science</strong></td>
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<tr>
<td>Phase 2 (At Sea)</td>
<td>22 weeks</td>
<td>MNTB Deck Training Record Book</td>
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<td></td>
<td></td>
<td>Guided Studies (HND Level 1 preparation)</td>
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<tr>
<td>Phase 3</td>
<td>28 weeks</td>
<td>HND Level 1 units (STCW II/1 UPK): Navigation, Passage Planning Skills,</td>
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<td></td>
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<td>Watchkeeping and Communications, Stability and Cargo Operations, Law</td>
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<td>and Management</td>
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<td></td>
<td>Preparation for SQA examinations</td>
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<td></td>
<td></td>
<td>NAEST(O) preparation/assessment</td>
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<tr>
<td>Phase 4 (At Sea)</td>
<td>49 weeks</td>
<td>MNTB Deck Training Record Book</td>
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<tr>
<td></td>
<td></td>
<td>Guided Studies (HND Level 2; SQA/MCA written and oral exams)</td>
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<tr>
<td>Phase 5</td>
<td>39 weeks</td>
<td>STCW short courses: AFF, EDH, MFA, GMDSS, NAEST(O), PSC&amp;RB, HELM(O)</td>
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<tr>
<td></td>
<td></td>
<td>Preparation for SQA/MCA written and oral examinations</td>
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<td>Successful completion of all units, examinations and courses leads to</td>
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<td>the award of: <strong>MCA Certificate of Competency</strong></td>
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<td></td>
<td>HND Level 2 units (STCW II/2 UPK): Command Passage Planning, Advanced</td>
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<td>Ship Stability and Construction, Cargo and Port Operations, Law and</td>
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<td></td>
<td>Management for Mates and Masters, Bridge and Engineering Systems</td>
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<td>Successful completion of all HND academic assessments at the required</td>
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<td>pass rates provides full academic exemptions to Chief Mate/Master level</td>
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<td>and leads to the award of: <strong>Higher National Diploma (HND)</strong></td>
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</table>

**TOP UP TO BSC (HONS) DEGREE – OPTIONAL**

Candidates who successfully achieve a full HND are then eligible to top up the academic award to:

**BSc (Hons) Degree in Marine Operations Management**
# MARINE ENGINEERING OFFICERS – DEGREE PROGRAMME

<table>
<thead>
<tr>
<th>ACADEMY PHASE</th>
<th>DURATION</th>
<th>CONTENT</th>
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<tbody>
<tr>
<td>Induction</td>
<td>2 weeks</td>
<td>• Freshers’ week and general induction to the shipping industry</td>
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<tr>
<td></td>
<td></td>
<td>• Assessment for entry to degree programme</td>
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<tr>
<td></td>
<td></td>
<td>• STCW pre-sea short courses and EES familiarisation</td>
</tr>
<tr>
<td>Phase 1</td>
<td>28 weeks</td>
<td>Marine Engineering Principles and Workshop Skills Training</td>
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<tr>
<td></td>
<td></td>
<td>FdEng units: Mathematics, Marine Engineering Principles with Work-Based</td>
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<tr>
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<td>Learning, Marine Electrics, Introduction to Electronics, Instrumentation</td>
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<td></td>
<td></td>
<td>and Controls, Marine Auxiliaries, Mechanics, Material Science, Thermody</td>
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<td></td>
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<td>namics, Engineering Management, Systems and Legislation (Operational)</td>
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<tr>
<td>Phase 2 (At Sea)</td>
<td>18 weeks</td>
<td>Work-Based Learning (Operations Level), MNTB Engineer Training Record</td>
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<td>Book, Consolidation of under-pinning knowledge (UPK)</td>
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<tr>
<td>Phase 3</td>
<td>30 weeks</td>
<td>FdEng units: Further Mathematics, Marine Propulsion (Steam), Marine</td>
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<td>Propulsion (Motor), Engineering Management Systems, Resources and</td>
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<td>Legislation (Management), Naval Architecture with Work-Based Learning,</td>
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<td></td>
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<td>Advanced Marine Electrics, Further Thermodynamics, Instrumentation and</td>
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<td></td>
<td>Control Principles, Further Mechanics, Work-Based Engineering Project</td>
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<td></td>
<td>Workshop Skills Training</td>
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<tr>
<td>Phase 4 (At Sea)</td>
<td>34 weeks</td>
<td>Work-Based Learning (Management Level), MNTB Engineer Training Record</td>
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<td>Book, Consolidation of UPK</td>
</tr>
<tr>
<td>Phase 5 Part 1</td>
<td>14 weeks</td>
<td>Consolidation of Work-Based Learning</td>
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<td>FdEng units: Naval Architecture with Work-Based Learning (Part 2),</td>
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<td></td>
<td>Advanced Marine Electrics, Further Thermodynamics, Instrumentation and</td>
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<td>Control Principles, Work-Based Engineering Project (completion)</td>
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<td></td>
<td>Successful completion of academic assessments leads to the award of:</td>
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<tr>
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<td></td>
<td>Foundation Degree (FdEng) in Marine Engineering</td>
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<tr>
<td>Phase 5 Part 2</td>
<td>9 weeks</td>
<td>STCW short courses: MFA, AFF, PSC&amp;RB, HELM(O), HV(O)</td>
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<td></td>
<td></td>
<td>Workshop Skills Training and MCA orals preparation</td>
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<td></td>
<td></td>
<td>Successful completion of MCA oral examination leads to the award of:</td>
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<tr>
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<td></td>
<td>Engineer Officer of the Watch MCA Certificate of Competency</td>
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<tr>
<td>ACADEMY PHASE</td>
<td>DURATION</td>
<td>TOP UP TO BSC (HONS) DEGREE – OPTIONAL</td>
</tr>
<tr>
<td>Phase 6</td>
<td>14 weeks</td>
<td>Bachelor of Engineering (BEng) Honours Degree units: Dissertation,</td>
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<td></td>
<td>Project Management, Research Management, Professional Engineering</td>
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<td>Management, Control Systems and Naval Architecture</td>
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<tr>
<td>Phase 7 (At Sea/On Leave)</td>
<td>12 months</td>
<td>Complete self-study elements of Project Management and Professional</td>
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<td></td>
<td>Engineering Management; complete Dissertation – up to 12 months to</td>
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<td></td>
<td></td>
<td>complete</td>
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<td>Successful completion of all units leads to the award of:</td>
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<tr>
<td></td>
<td></td>
<td>BEng (Hons) Degree in Marine Engineering and Management</td>
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</tbody>
</table>
### MARINE ENGINEERING OFFICERS – HND PROGRAMME

<table>
<thead>
<tr>
<th>Phase</th>
<th>Duration</th>
<th>Content</th>
</tr>
</thead>
</table>
| Phase 1     | 29 weeks | - Freshers’ week and general induction to shipping industry  
- MNTB Workshop Skills and Technology  
- STCW pre-sea short courses and EES familiarisation

Successful completion of the HE Entry Course leads to the award of:

**NcFE Level 3 Diploma in Marine Engineering**

| Phase 2      | 22 weeks | MNTB Engineer Training Record Book  
Consolidation of UPK

| Phase 3      | 37 weeks | HND Level 4 units: Mathematics, Mechanics, Thermodynamics, Marine Electrics, Introduction to Electronics, Instrumentation and Controls, Marine Engineering Operations, Marine Auxiliaries, Materials Science, Engineering Management, Systems and Legislation (Operational)  
MNTB Workshop Skills and IAMI EK examination preparation

| Phase 4      | 29 weeks | MNTB Engineer Training Record Book  
Consolidation of UPK/IAMI EK

| Phase 5      | 9 weeks  | STCW short courses – MFA, PSC&RB, AFF, HELM(O), HV(O)  
Completion of MNTB Workshop Skills  
Preparatory courses for IAMI EK and MCA oral examinations

Successful completion of IAMI EK

MCA oral preparation

End of cadetship

Successful completion of MCA oral examinations lead to the award of:

**Engineer Officer of Watch MCA Certificate of Competency**

**TOP UP TO BENG (HONS) DEGREE – OPTIONAL**

Candidates who successfully complete a full HND are then eligible to top up the academic award to:

**BEng (Hons) Degree in Marine Engineering and Management**
## MARINE ELECTRO-TECHNICAL OFFICERS – DEGREE PROGRAMME

<table>
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<tr>
<th>ACADEMY PHASE</th>
<th>DURATION</th>
<th>CONTENT</th>
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| Induction     | 2 weeks  | • Freshers’ week and general induction to the shipping industry  
|               |          | • Assessment for entry to degree programme  
|               |          | • STCW pre-sea short courses and EES familiarisation |
| Phase 1       | 28 weeks | Workshop Skills Training, FdEng units: Marine Engineering Principles for ETOs, Engineering Science, Mathematics, Marine Electrics (with Work-Based Learning), Electrical Power Systems, Introduction to Electronics, Instrumentation and Control, Electrical Legislation and Management, Marine Auxiliaries, Electro-Mechanical Plant Operation and Diagnostics |
| Phase 2 (At Sea) | 18 weeks | Work-Based Learning (Operations Level – Electrical)  
|               |          | MNTB ETO Training Record Book and Guided Studies (Electronics) |
| Phase 3       | 30 weeks | Workshop Skills Training and STCW course – HV(O)  
| Phase 4 (At Sea) | 24 weeks | Work-Based Learning (Electrical Engineering Project Part 1)  
|               |          | MNTB ETO Training Record Book |
| Phase 5 Part 1 | 14 weeks | Consolidation of Work-Based Learning  
|               |          | Successful completion of academic assessments leads to the award of: **Foundation Degree (FdEng) in Marine Electrical and Electronic Engineering** |
| Phase 5 Part 2 | 9 weeks  | STCW short courses: MFA, PSC&RB, AFF, HELM(O), HV(O)  
|               |          | Workshop Skills Training, ENEM, GMDSS Radio Maintenance  
|               |          | MCA orals preparation  
|               |          | Successful completion of the MCA oral examination leads to the award of: Electro-Technical Officer MCA Certificate of Competency |

| TOP UP TO BENG (HONS) DEGREE – OPTIONAL |

| Phase 6 | 14 weeks | **Bachelor of Engineering (BEng) Honours Degree** units: Dissertation, Research Management, Project Management, Professional Engineering Management, Control Systems, Electrical and Electronic Design Engineering |
| Phase 7 (At Sea/On Leave) Blended Learning with Tutorial Support | 12 months | Complete self-study elements of Project Management and Professional Engineering Management; complete Dissertation – up to 12 months to complete  
|               |          | Successful completion of all units leads to the award of: **BEng (Hons) Degree in Marine Engineering and Management** |
In addition to academic studies, officer cadets undertake a number of mandatory safety and survival courses during their cadetship. These include the following:

- Personal Survival Techniques (PST)
- Personal Social and Safety Responsibilities (PSSR)
- Basic Fire-Fighting (BFF)
- Elementary First Aid (EFA)
- Medical First Aid Aboard Ship (MFA)
- Proficiency in Survival Craft and Rescue Boats (PSC&RB)
- Advanced Fire-Fighting (AFF)
- Human Element, Leadership and Management: Operational Level (HELM(O))
- Advanced Fire-Fighting (AFF)
- Human Element, Leadership and Management: Operational Level (HELM(O))

Deck cadets must also complete the following courses:

- Efficient Deck Hand (EDH)
- Global Maritime Distress and Safety System General Operator’s Certificate (GMDSS)
- Navigation Aids and Equipment Simulator Training: Operational Level (NAEST(O)).

Marine Engineer and METO cadets must also complete the following course:

- High Voltage: Operational Level (HV(O))
LIFE AFTER THE OFFICER CADETSHIP

Deck Officers
Newly qualified deck (navigation) officers will usually join their company’s fleet as third Officer, undertaking bridge watchkeeping duties at sea and operational duties in port, with responsibility for the safety of the crew, ship, cargo and environment.

As their skills and experience develop, young officers progress to higher certificates of competency, leading eventually to certification as ship’s Captain (Master) and possibly to the command of their own vessel.

Marine Engineering Officers
Newly qualified marine engineering officers will usually join their company’s fleet as fourth Engineer, undertaking engine room watchkeeping duties and having responsibility for the safe and efficient operation of the ship’s main propulsion unit and other vital services.

As their skills and experience develop, young officers progress to the higher certificates of competency, leading eventually to certification as the Chief Engineer and possibly to this position aboard ship.

Marine Electro-Technical Officers
After completing the cadetship, METOs typically remain within the ETO specialisation. Job opportunities and career progression within the ETO specialisation will then depend on the shipping company concerned but can often lead to the position of Chief Electro-Technical Officer, Chief Technical Officer or Electrical Superintendent.

Positions Ashore
Many opportunities also exist for qualified deck, marine engineering and METO officers ashore and the maritime industry offers lifelong careers, whether at sea or ashore.

Shipping companies often recruit shore-based marine superintendents and fleet operations staff from their seagoing officers. Harbour authorities recruit experienced officers to train as pilots, harbour masters and port operations managers.

Marine insurance companies require the officers’ skill and experience to fill such roles as hull, cargo and machinery surveyors. The MCA also requires surveyors and examiners, while maritime colleges recruit lecturers and assessors.
CAREER PROGRESSION

Once initial certification is gained, further training and experience will enable progression to the qualifications needed to become either a ship’s Captain, who is in overall command of the ship, a Chief Engineer, who is in charge of all the engineering and technical services, or a Chief Electro-Technical Officer, with overall responsibility for control engineering and electronic systems.

It typically takes a further five or six years to achieve these senior qualifications. Promotion will then depend on merit and opportunity, as well as holding higher level qualifications.

For those who, later, wish to progress their career ashore, there is an extensive range of opportunities available, from marine pilots and surveyors to port operations, marine law and a host of other occupations.

Detailed career progression charts for each discipline and academic route can be accessed at: www.warsashacademy.co.uk/careers

“\nIn the space of four years I have been around the world twice. I have hosted the Captain’s table on Queen Mary 2 and met royalty, celebrities and some of the most interesting people who travel with us. I am responsible for driving a £500 million ship carrying over 2,500 passengers and 1,000 crew.”

Christopher
Third Officer
TAKING THE NEXT STEP

RESEARCH THE SPONSORING COMPANIES

You will find a lot of information on each individual shipping company’s website about the types of vessel operated by the company and the voyage areas. If you wish to apply for an officer cadetship, the next step is to contact companies directly or apply online for an officer cadet application form.

Sponsoring companies normally have a recruitment drive twice a year for entry in January and September. Our website holds a comprehensive list of, and web links to, sponsoring companies who recruit navigation, marine engineering and marine electro-technical officer cadets.

For a list of sponsoring companies, visit
www.warsashacademy.co.uk/recruitment/officercadets/our-recruitment-partners

COME TO OUR OPEN DAYS

We run an open day usually around February and October where you can meet some of the sponsoring shipping companies and recruitment specialists. You can also walk around the campus; take a look at our facilities; listen to talks about life at sea and meet the officer cadets currently studying at Warsash.

Take a look at website for more information, dates and how to register at
www.warsashacademy.co.uk/openday or email us at wma@solent.ac.uk

USEFUL LINKS

The following links will help provide more information about maritime courses and training, careers at sea, recruiting shipping companies and guidance to MCA certification:

- Careers at Sea
  www.careersatsea.org

- Career at Sea and Beyond
  www.casandbeyond.org

- Go Maritime Net
  www.go-maritime.net

- International Maritime Organisation
  www.imo.org

- Maritime and Coastguard Agency
  www.gov.uk/government/organisations/maritime-and-coastguard-agency

- Merchant Navy Training Board
  www.mntb.org.uk

- Sea Vision UK
  www.seavision.org.uk

- Southampton Solent University
  www.solent.ac.uk/warsash

- The Chamber of Shipping
  www.ukchamberofshipping.com

- The Marine Society and Sea Cadets
  www.marine-society.org


Do it – jump in and you won’t look back. Be prepared to work very hard, both at college and at sea, but the rewards are more than worth it.

Graham
Third Engineer
Officer cadet training at Warsash Maritime Academy is located in Southampton on the south coast of England with excellent links and fast access by rail, air and road.

Please visit warsashacademy.co.uk for more detailed guidance and maps.

The postcode for Warsash Maritime Academy St Mary’s Campus is SO14 5GL

**BY ROAD**
Southampton is just 75 miles (120km) from London, with excellent road links. Southampton sits at the southern end of the M3 motorway.

**BY AIR**
The closest airports are Southampton International Airport (Airport Parkway station) and Bournemouth International Airport. However, London Heathrow and London Gatwick airports are both one and a half hours away by car or taxi (traffic dependent).

**BY RAIL**
From London and the rest of the UK, travel to Southampton Central station, where there are taxi ranks.

**BY COACH**
National Express runs a coach service from many UK towns and cities to Southampton.
OFFICER CADET ENQUIRIES

Cadet Admissions
Tel: +44(0)23 8201 5025
Email: wma.cadets@solent.ac.uk

GENERAL ENQUIRIES

Main Switchboard tel: +44 (0)23 8201 3000
Email: ask@solent.ac.uk
www.warsashacademy.co.uk

The information contained in this course brochure is also available at www.warsashacademy.co.uk

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