

# Simulator Training at MSA Portsmouth

## Setting New Standards Together

The Maritime Skills Academy in Portsmouth is a purpose built, state-of-the-art maritime training centre. It is fully equipped to deliver ground-breaking simulator and classroom-based Bridge and Engine Resource Management courses, including two 270 degree full mission Bridges, Emergency Safety Centre, 360 degree Tug & small boat bridge, Engine Control room, Main Switch Board, High Voltage and Virtual Machinery Spaces.

We aim to deliver the high-standard training needed to support a company's key objectives: delivering the safest and most efficient standards in the industry.



### Onboard Training, Assessment & Audits

With our expert team of instructors, seafarers and HR specialists, we can provide various areas of consultancy that will benefit the safe operation of your vessels.

#### Areas include:

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Accident investigation

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HR and policy creation

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Safety Procedures advice and design

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Safety Audits

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Port Studies

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Research and development for vessel models

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Independent officer and crew skill set assessments

### STCW Basic Training for Service on Ships using Fuels Covered within the IGF Code

Our MCA approved course provides training for seafarers responsible for designated safety duties associated with the care, use, or in emergency response to the fuels on board ships subject to the IGF code (International Code of Safety for Ships using Gases or other Low-flashpoint Fuels).

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Contributing to the safe operation of a ship subject to the IGF code

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Taking precautions to prevent hazards on a ship subject to the IGF code

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Applying occupational health and safety precautions and measures

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Responding to emergencies

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Taking precautions to prevent pollution of the environment from the release of fuels found on ships subject to the IGF code



# Simulator Training at MSA Portsmouth

## Bridge Resource Management (BRM) Level 1 & Level 2

Our experienced instructors provide all the necessary underpinning knowledge before delegates practice a range of operational exercises in the full-mission Bridge simulator to reinforce the theory elements.

This programme can be developed in conjunction with clients to provide a more company-orientated course experience, utilising corporate documentation and procedures.

**These courses include the following critical elements:**

Communication

Teamwork/Leadership

Situational Awareness

Decision Making



## Engine Resource Management (ERM) Level 1 & Level 2

ERM Level 1 training is based on vessel operations during standard conditions, providing a range of operational exercises in the full-mission Engine Room simulator using communication, teamwork, situational awareness, and decision making.

ERM Level 2 training is based on vessel operations during abnormal or emergency conditions. The engine team will utilise the safety centre and emergency exercises will be created to have the engineers use communication, teamwork, situational awareness and decision-making skills.

## Ship Handling and Advanced Ship Handling (Conventional or Podded Propulsion)

The 5-day Ship Handling course provides practical ship handling training using Conventional/ Podded Propulsion during vessel operations under standard conditions.

The subsequent Advanced Ship Handling course provides practical ship handling training using Conventional Propulsion during vessel operations under abnormal or emergency conditions.





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## Bridge Simulation Assessments and Engine Room Simulation Assessments

Both 1-day assessment courses provide an initial assessment of technical and non-technical skills and competence expected for the rank. They provide an additional practical evaluation in support of a company's core recruitment and selection methods, such as formal interview, psychometric testing and assessment centres.



## ECDIS Training (NACOS Platinum)

This 5-day course trains bridge watchkeeping officers in the efficient and secure use of Electronic Chart Display & Information Systems (ECDIS), in line with the guidance provided by IMO Model Course 1.27 for generic ECDIS training. The course is also approved for type-specific training on Transas NACOS Platinum.

The training aims are to equip delegates with the fundamental knowledge and skills needed to keep a safe navigational watch using ECDIS, interfaced with other onboard equipment to maintain safety of navigation. Training is undertaken in a dedicated ECDIS training room at MSA Portsmouth and is focussed on the use of ECDIS under a range of voyage conditions, including pilotages, coastal transits and ocean passages.

## Polar Code Basic and Advanced

Our MCA approved and Nautical Institute recognised Polar Code Basic and Advanced courses follow the MCA guidelines on safely operating a vessel in Arctic and Antarctic Waters. They have been developed by experienced Ice Captains and Ice Pilots, who are recognised leaders in the industry. Use of the full bridge simulator is integrated into the training to provide real-life scenarios.





# Simulator Training at MSA Portsmouth

## NAPA Ship Stability

Our NAPA accredited course offers a comprehensive package of learning on ship stability. Taught by expert instructors, the course provides the importance of understanding basic stability, operations in port, cargo planning, surveys and casualty investigations, ships calculations and specific issues around stability.

This course is targeted to deepen the theoretical knowledge of intact stability, damage stability, stress, dynamical stability and knowledge of all facilities in onboard-NAPA and proficiency in how to use them including:

The GZ-curve, stability in heeled condition

Free surfaces

Stability criteria, GM/KG requirements

Probabilistic damage stability calculation method according to SOLAS II-1

Damage control concepts



## STCW High Voltage (HV) at Operational Level

This course provides the essential education and training in high voltage installations required to meet the Understanding, Knowledge and Proficiency (UPK) requirements set out in STCW Table AIII/1 and AIII/6 for electrical, electronic and control systems at the Operational Level.

## STCW High Voltage (HV) at Management Level

For those seafarers with responsibility for the safe control and management of high voltage power systems, this course provides the essential education and training in high voltage installations required to meet the Understanding, Knowledge and Proficiency (UPK) requirements set out in STCW Table AIII/2 and AIII/6 for electrical, electronic and control systems at the Management Level.

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