

## GENERIC TRAINING COURSES (CLASSROOM)

For professional seafarers, who wants a generic ECDIS training course. You will receive practical training on FURUNO equipment, but the training content is relevant regardless of which ECDIS manufacturer you are using.

### Generic ECDIS training

Approved by the Danish Maritime Authority

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**This training course will provide you with the training required to safely operate ECDIS when used as the primary source for sea charts. This course is also considered as FURUNO ECDIS type specific training. Follows IMO Model Course 1.27.**

**Relevant for:** Navigators operating ECDIS today or are planning to do so in the future.

**Equipment used:** FURUNO ECDIS, FURUNO Integrated Bridge System (IBS), and full mission simulator.

**Duration:** 4 days.

**Course content:** Theoretical lectures, active discussions based on your navigational experiences, series of demonstrations, and multiple practical exercises in our full mission simulator. The training course includes the following topics:

- Principal types of ECDIS systems and their display characteristics.
- Differences between ECDIS and ECS.
- Introduction to the legal aspects of ECDIS compliance.
- Operational use of Electronic Navigational Charts (ENC) and Raster Navigational Charts (RNC) including chart updating processes.
- Setting up display, route planning, route monitoring, and alarm handling.
- Detection of misrepresentation of information, and factors affecting system performance and accuracy, including the risks of over-reliance on ECDIS.



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**Course certificate:** The training course is concluded with three compulsory tests and if all three passed, then a certificate is issued.

**Price:** 1100 EUR per person excl. VAT taxes. *All prices are exclusive travel and accommodation expenses.*

**Location:**

Hammerholmen 44 - 48  
2650 Hvidovre  
DK – Denmark



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## Onboard ECDIS Assessor

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**This course contains advanced training in ECDIS functionalities and capabilities, which will provide you with the level of competence necessary to conduct qualified onboard assessments. It includes lessons in extended route planning, as well as practical training in a full mission simulator, with focus on training your assessor skills. Follows IMO Model Course 1.30.**

**Relevant for:** Shore-based personnel and senior officers conducting onboard competence assessments of navigational officers, who operate an ECDIS.

**Equipment used:** FURUNO ECDIS, FURUNO Integrated Bridge System (IBS), full mission simulator.

**Duration:** 4 - 5 days.

**Admission recommendation:** For the training course to be conducted in 4 days, the participant must have basic knowledge of ECDIS regulations and functions.

### **Course content:**

Theoretical lectures, discussions, and series of demonstrations. Training covers advanced ECDIS training and the principles of developing and implementing a shipboard assessment system and it includes assessor exercises in a simulated environment. After completing this training course, you will be able to:

- Apply the international provisions concerning the training and assessment of officers and ratings onboard vessels in the context of international law.
- Determine and apply effective assessment methodologies.
- Organize, administer and conduct onboard assessments.
- Develop a performance improvement plan.
- Evaluate and report outcomes and observations.



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Furthermore, you will obtain an understanding of:

- Principal types of ECDIS systems and their display characteristics.
- Operational use of ECDIS functionalities.
- Risks of over-reliance on ECDIS, system performance, and accuracy.
- Display setup, route planning, route monitoring, and alarm handling, etc.
- Chart handling.

**Course certificate:** The training course is concluded with a multiple-choice test. If passed, then an Onboard ECDIS Assessor certificate is issued. The course complies with the IMO Model Course 1.30 / STCW Code, section A-1/6.

**Price:** 1950 EUR per person excl. VAT taxes. *All prices are exclusive travel and accommodation expenses.*

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## Onboard ECDIS Trainer

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**This course contains advanced training in ECDIS functionalities and capabilities, and lessons in how to train others in the use of the FURUNO ECDIS. This course will provide you with the level of competence necessary to conduct qualified Onboard ECDIS one-on-one training on your company's ships.**

**Relevant for:** Senior Officers based ashore or onboard.

**Equipment used:** FURUNO ECDIS (FMD-series).

**Duration:** 5 days.

**Admission requirement:** The trainee must have completed generic ECDIS training and have a Master Mariner education.

**Admission recommendation:** It would be an advantage for the trainee to complete the FURUNO (FMD-series) CBT training before participating in the course.

### **Course content:**

Theoretical lectures, discussions, and series of demonstrations. Training covers advanced ECDIS training and trainer instruction. After completing this training course, you will have a thorough knowledge of:

- Advanced operational FMD ECDIS functionalities, such as visual settings, route planning, chart management, alarm management, etc.
- FMD ECDIS capabilities and limitations.
- Trainer instruction and exercises with you in the instructor role.
- Basic knowledge on how to conduct one-on-one training.

**Course certificate:** The training course is concluded with a multiple-choice test. If passed, then an Onboard ECDIS Trainer certificate is issued. The certificate must be renewed every two years by refresher training.

**Price:** 3000 EUR per person excl. VAT taxes. *All prices are exclusive travel and accommodation expenses.*



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## Operational use of ECDIS - IMO Model Course 1.27

Approved by the Danish Maritime Authority and DNV-GL

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**This training course will provide you with the training required to safely operate ECDIS, when used as the primary source for sea charts. This course is also considered as FURUNO type-specific ECDIS training.**

**Relevant for:** Navigators operating ECDIS today or are planning to do so in the future.

**Blended learning option:** You have the possibility to complete the theoretical part of the IMO Model Course 1.27 online (2 days), and then combine it with 3 days at our training center, where you will receive practical training in our simulators. After having successfully completed the theoretical part online, there is a 6 month time limit for you to complete the practical training course to obtain the IMO Model Course 1.27 certification.

**Equipment used:** FURUNO ECDIS, FURUNO Voyager INS (Integrated Navigation System), and full mission simulator.

**Duration:** 5 days.

**Course content:** Theoretical lectures, active discussions based on your navigational experiences, series of demonstrations, and multiple practical exercises in our full mission simulator. The training course includes the following topics:

- Principal types of ECDIS systems and their display characteristics.
- Differences between ECDIS and ECS.
- Introduction to the legal aspects of ECDIS compliance.
- Operational use of Electronic Navigational Charts (ENC) and Raster Navigational Charts (RNC) including chart updating processes.
- Setting up display, route planning, route monitoring, and alarm handling.
- Detection of misrepresentation of information, and factors affecting system performance and accuracy, including the risks of over-reliance on ECDIS.

**Course certificate:** The training course is concluded with three compulsory tests and if all three passed, then a certificate is issued. The course complies with the IMO Model Course 1.27 and the STCW 2010 Code, as amended in A-II/1-3 and B-I/36-66.



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**Price:** 1450 EUR per person excl. VAT taxes. *All prices are exclusive travel and accommodation expenses.*

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## Onboard Assessment - IMO Model Course 1.30

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**This course will provide you with the basic knowledge and the qualifications necessary to execute, administer, and supervise proper onboard assessments.**

**Relevant for:** Shore-based personnel and officers onboard vessels conducting onboard assessments of competence of the seafarers.

**Duration:** 2 days.

**Course content:** Theoretical lectures, discussions, and series of demonstrations. Includes the principles of developing and implementing a shipboard assessment system. After completing this course, you will be able to:

- Apply the international provisions concerning the training and assessment of officers and ratings onboard vessels in the context of international law.
- Determine and apply effective assessment methodologies.
- Organize, administer, and conduct onboard assessment.
- Develop a performance improvement plan.
- Evaluate and report outcomes and observations.

**Course certificate:** The training course is concluded with a multiple-choice test. If passed, then a certificate is issued. The training complies with the IMO Model Course 1.30 and the STCW Code, section A-1/6.

**Price:** 750 EUR per person excl. VAT taxes. *All prices are exclusive travel and accommodation expenses.*

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## Operational use of IBS/INS - IMO Model Course 1.32

Approved by DNV-GL

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**This training course will provide you with the training required to safely operate an IBS (Integrated Bridge System)/INS (Integrated Navigation System).**

**Relevant for:** Navigators operating onboard vessels equipped with IBS/INS today or are planning to do so in the future.

**Blended learning option:** You have the possibility to complete the theoretical part of the IMO Model Course 1.32 online (2 days), and then combine it with 3 days at our training center, where you will receive practical training in our simulators. After having successfully completed the theoretical part online, there is a 6 month time limit for you to complete the practical training course to obtain the IMO Model Course 1.32 certification.

**Equipment used:** FURUNO Voyager INS, full mission simulator.

**Duration:** 5 days.

**Admission recommendation:** IMO Model Course 1.27 or similar generic ECDIS training. FURUNO ECDIS type-specific training.

**Course content:** Theoretical lectures, series of demonstrations, active discussions based on your practical experiences, and multiple practical exercises in our full mission simulator. After completing this training course, you will know and understand:

- Legal and technical aspects of IBS/INS.
- How to work with IBS/INS in normal, abnormal, and emergency situations.
- Potential failures and risks when operating an IBS/INS.
- The importance of human-machine interface (HMI) when operating IBS/INS.

**Course certificate:** When the training course is concluded a certificate is issued. The course complies with the IMO Model Course 1.32.

**Price:** 1450 EUR per person excl. VAT taxes. *All prices are exclusive travel and accommodation expenses.*



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## Ice Navigation training course

Approved by the Danish Maritime Authority

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**This training course will provide you with the necessary knowledge to navigate and operate safely in polar waters. The course content is developed in close cooperation with an ice pilot, who has more than 40 years of experience navigating in Arctic waters. Available at a basic and advanced level.**

**Relevant for:** Navigators at operational level planning to sail in areas covered by the IMO Polar Code. Advanced training is for navigators at operational and management level already sailing in areas covered by the IMO Polar Code.

**Level:** Basic or advanced.

**Equipment used:** FURUNO Integrated Bridge System (IBS), FURUNO Ice Radar, full mission simulator.

**Duration:**

- Basic: 3 days
- Advanced: 1 day

**Course content:** Theoretical lectures, discussions, series of demonstrations, and exercises. Topics are:

- Basic: Ice characteristics and different types of ice. Vessel performance in ice and low air temperature. Operating and manoeuvring a vessel in ice. Regulatory considerations. Crew preparation, working condition, and safety. Environmental factors and regulations.
- Advanced: Voyage planning and reporting. Equipment limitation. Operating and manoeuvring a vessel in ice. Safety in polar waters.

**Admission requirement for advanced training:** Ice Navigation basic training according to STCW code table A-V/4-1. Minimum two months of sailing experience in polar areas as watchkeeping officer.



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**Course certificate:** The training courses are concluded with multiple-choice tests. If the test is passed, then a certificate is issued. Basic training complies with the STCW code table A-V/4-1 and advanced training complies with the STCW code table A-V/4-2.

**Price Basic:** 1100 EUR per person (excl. VAT taxes).\*

**Price Advanced:** 750 EUR per person (excl. VAT taxes).\*

*\*All prices are exclusive travel and accommodation expenses.*

**Location:**

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