



ABB MARINE ACADEMY

LINKING PEOPLE AND TECHNOLOGY

01

Welcome to ABB Marine Academy

Training and competence management are one of the key success factors to our customers. ABB Marine service team has expertise in most vessel segments, such as cruise, LNG carriers, drillships, icebreakers and OSVs. Our areas of competence include commissioning, support, supply of spare parts, planned maintenance, retrofits and upgrades. This extensive competence pool enables us to understand and anticipate the needs of our customers and match these needs with tailored training.

In practice, this means we have improved our training portfolio. We offer more product and system courses, and better options for on-site training and coaching. We have also improved our training material to support trainees after the completion of their course. We make continuous improvements by collecting feedback after every course and consider those when developing the trainings. We hope you will recognize these improvements when using our services.

We look forward to hearing from you.

Yours sincerely,
ABB Marine Academy team

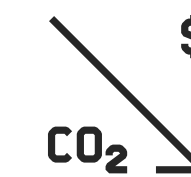


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ABB Marine Academy has set itself two targets: first, we want to provide our customers' crew with the right kind of training that enables them to do their job safely and better; and second, we need to support our customers' corporate management in reaching their safety and reliability KPIs, and their targets for cost and growth.



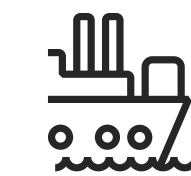
Safety

Quality training supports the crew towards safe operations, with ability to get the most of the equipment in all situations.



Performance

Marine Academy training for ABB equipment allows the highest operational performance leading towards more efficient and sustainable operations.



Quality

Knowledge is power; with customized courses from Marine Academy your crew reaches most safe, efficient and sustainable operations.



02

Electrical Systems



H860

Marine Power Plant Basics for Technical Staff

Upon completion of this course the participants will have an understanding of a marine power plant's design and function and an understanding of the ABB propulsion system.



Learning objectives

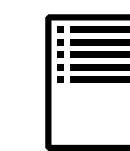
Upon completion of this course the participant will be able to:

- communicate effectively with other technical staff
- identify the components of a marine power plant
- explain the limitations of a marine power plant
- troubleshoot fault conditions within a marine power plant
- critically assess the marine power plant in terms of efficiency and relevant actions



Duration

3 days (+1 day for Azipod® if required only in Helsinki)



Prerequisites

None



Venue

- Helsinki, Finland
- Genoa, Italy
- Rotterdam, Netherlands

[Back to Product Overview](#)



H905

PCS Propulsion Control System Operator Course

The goal of this course is to train the participants to understand and maintain the propulsion control system with AC800M application.



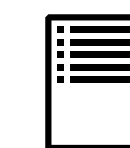
Learning objectives

Upon completion of this course, students will be able to understand the function of the electrical propulsion control system. The participants could troubleshoot and restore the propulsion control system in case there are control components failure.



Duration

2 days



Prerequisites

The participants should have fundamental knowledge of vessel operation. Completion of ACS6000/6080 and ACS800/880 marine drive course or similar knowledge is advisable.



Venue

Singapore

[Back to Product Overview](#)



H911/H910K

ACS800LC/ACS800 drilling drives system

The goal of this course is to learn how to start-up, operate, maintain and troubleshoot ABB ACS800LC/ACS800 integrated drilling drives system for jack-ups, semi-submersibles and drillships.



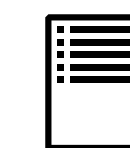
Learning objectives

Upon completion of this course, the participants will be able to locate hardware components, to verify and replace ACS800/ACS800LC supply, in-verter and cooling units. The participants will also be able to perform basic troubleshooting of AC800M drilling drives control system. Project system backup/recovery and preventive maintenance are also discussed.



Duration

5 days



Prerequisites

Basic knowledge of electronics, AC drive, drilling process and experience is advisable.



Venue

Singapore

[Back to Product Overview](#)



H872

Low Voltage Drive System, Operation, Maintenance and Troubleshooting

The course includes a first theoretical part on the basic concepts of VFD functionality and then devotes all the time to exercises with ACS800 and ACS880 with its development tools.



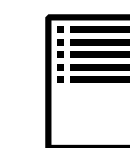
Learning objectives

Upon completion of this course, the participants will have a deep understanding of VFDm principles, clear steps to operate, maintain and troubleshoot issues.



Duration

5 days



Prerequisites

E-learning available on request – highly suggested.



Venue

- Lucca, Italy
- Rotterdam, Netherlands
- Other locations on request

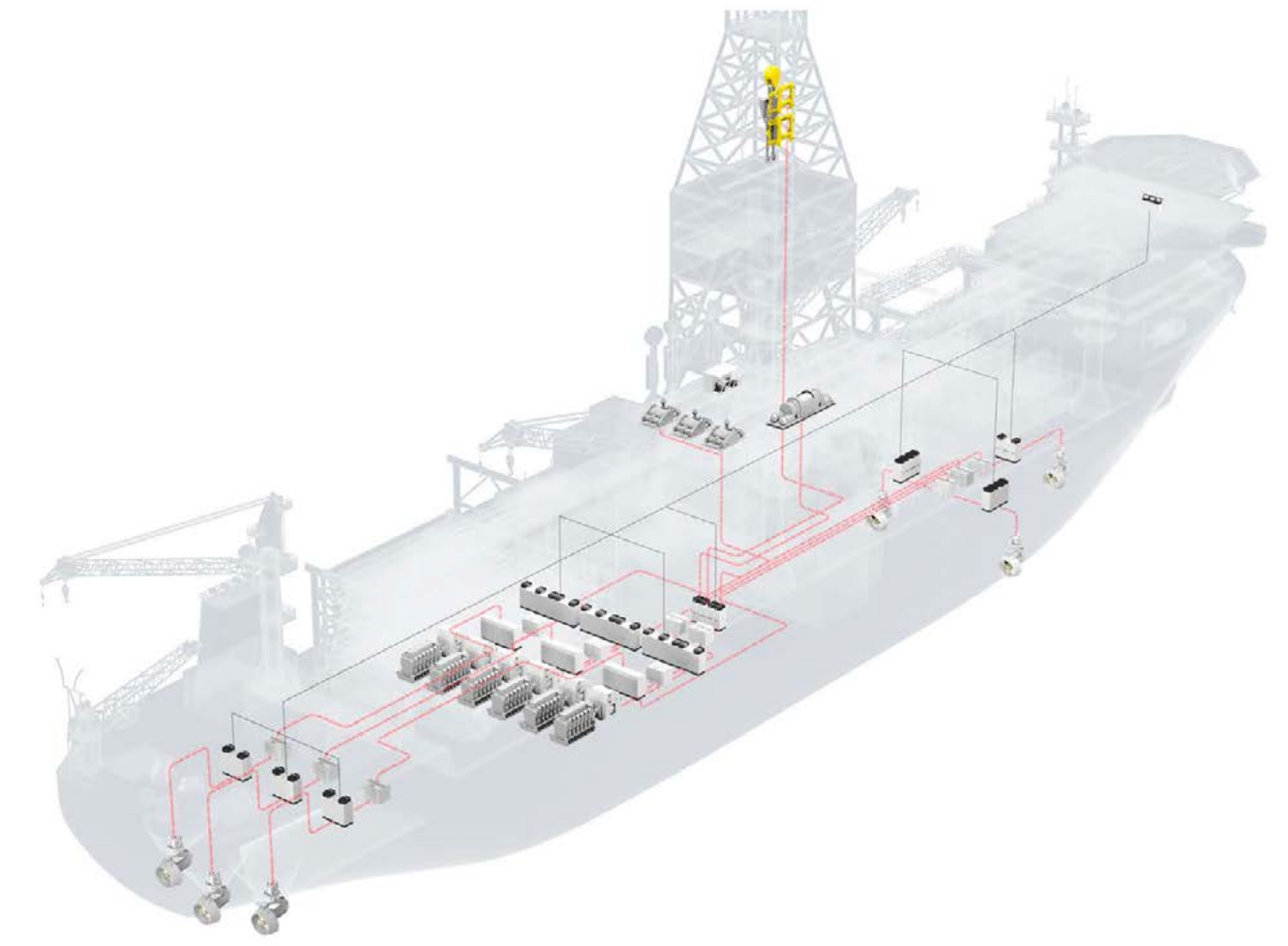
[Back to Product Overview](#)



H913

Drilling Drive System

The goal of this course is to learn how to troubleshoot and maintain the ABB integrated drilling drives system. The tools and methods learned can be applied to the work in practice.



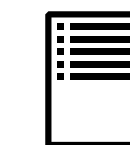
Learning objectives

Upon completion of this course the participants will be able to explain the ABB drilling system project configuration and functions of different components. The participants will be able to trace alarms from the process panel down to drives and control components. System backup and recovery will also be discussed.



Duration

4 days



Prerequisites

Drilling Drive System course from ABB or similar knowledge is advisable.



Venue

Singapore



H868

HV Power Distribution System – General

The major objective of the course is to provide the participants with in-depth theory, and train them for safe operation, maintenance and testing of switchgears, breakers and relays.



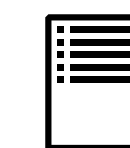
Course objectives

After completing the course successfully, the student will have a comprehensive background of the marine power plants and will be able to operate, maintain and work safely with circuit breakers (SF6, Vacuum, Emax), contactors and relays. Participants are given detailed theoretical coverage alongside practical exercises for better understanding of switchgears and Emax breakers.



Duration

4 days



Prerequisites

Marine Power Plant Basic for Technical Staff and Marine High Voltage Safety course from ABB Marine Academy or similar knowledge is advisable.



Venue

Genoa, Italy

[Back to Product Overview](#)



H868T

MV Power Distribution System & LV Emax Maintenance

Participants get in-depth theory and training for safe operation, maintenance and testing of switchgears, breakers and relays, and how to perform a regular maintenance program on Emax breakers.



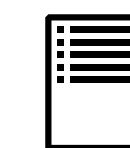
Learning objectives

After completing the course successfully, the student will have a comprehensive background of the marine power plants and will be able to to operate, maintain and work safely with circuit breakers (SF6, Vacuum, Emax), contactors and relays. Participants are given detailed theoretical coverage alongside practical exercises for better understanding of switchgears and Emax breakers.



Duration

5 days



Prerequisites

Marine Power Plant Basic for Technical Staff and Marine High Voltage Safety course from ABB Marine Academy or similar knowledge is advisable.



Venue

Genoa, Italy

[Back to Product Overview](#)



H869

HV Power Distribution System – ZS1 Unigear

Training for safe operation, control, configuration, troubleshooting and maintenance of ABB Marine HV (>1 kV) air-insulated switchgear, circuit breakers and protective relays.



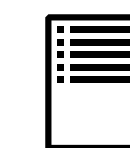
Learning objectives

Upon completion of this course, students will be able to locate hardware components, to verify and replace switchgear apparatus and to perform preventive maintenance. Students get hands-on practical with Local HMI, Web HMI and PCM600, a programming and configuration tool with actual REF615 and REF630 relays.



Duration

4 days



Prerequisites

Marine Power Plant Basic for Technical staff in ABB propulsion and Marine High Voltage Safety or similar knowledge is advisable.



Venue

- Genoa, Italy
- Rotterdam, Netherlands
- Singapore

[Back to Product Overview](#)



H870

LV Power Distribution System

The goal of this course is to train the participants in safe operation, control, configuration and maintenance of ABB LV switchgear MNS, air circuit breakers, molded-case circuit breakers and soft-starters.



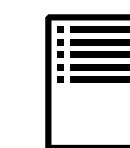
Learning objectives

Upon completion of this course, students will be able to locate hardware components, to understand and verify switchgear parts, breaker internal components and components inside cubicles. Students will also be able to perform maintenance, and identify low voltage electrical safety hazards.



Duration

4 days



Prerequisites

None



Venue

Rotterdam, Netherlands

[Back to Product Overview](#)



H875

Onboard DC Grid™ – Operation and Maintenance

Operation & Maintenance course provides participants with the essential knowledge and practical skills required to safely operate, monitor, troubleshoot, and maintain ABB's Onboard DC Grid system.



The training focuses on system operation, converter functionality, protection principles, diagnostic methods, and preventive maintenance procedures. Hands-on sessions using training equipment and PEMS simulation tools ensure that participants gain practical experience in fault identification, component replacement, and system verification. The course is intended for engineering personnel responsible for day-to-day operation, service, or technical support of vessels equipped with ABB's Onboard DC Grid technology.

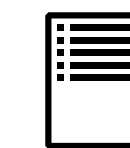
Learning objectives

Upon completion of the course, participants will be able to understand the operational principles of the ABB Onboard DC Grid system. Perform safe operation of DC Grid switchboards, converters, and associated equipment. Navigate and utilize system HMIs, diagnostic functions, and PEMS interfaces. Execute preventive maintenance tasks in accordance with ABB recommendations. Identify, analyze, and troubleshoot system faults, alarms, and interlocks. Replace key components and verify correct post-maintenance system behavior.



Duration

5 days



Prerequisites

Participants should have: Basic understanding of AC motors, drives, and marine electrical systems



Venue

Oslo, Norway

[Back to Product Overview](#)



03

Electrical Products



H863

ACS6000c NTY Cycloconverter

The participant will learn how to operate, maintain and troubleshoot the ACS6000c Cycloconverter system. The trainee will also learn how to use the available programming and troubleshooting tools with practical exercises.



Learning objectives

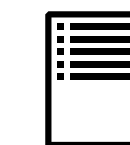
Upon completion of this course the participants will be able to:

- Describe the drive system components
- Explain the basic operation principle
- Identify drive components and configure settings
- Operate the drive
- Carry out preventive maintenance
- Perform basic troubleshooting tasks
- Locate and replace faulty hardware components



Duration

4 days



Prerequisites

Marine Power Plant Basic for Technical Staff and Marine High Voltage Safety course from ABB Marine Academy or similar knowledge is advisable.



Venue

Turgi, Switzerland

[Back to Product Overview](#)



H864

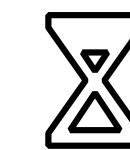
ACS6000 AD/SD Marine Drive

The goal of this course is to train the participants in the safe operation, control, configuration, troubleshooting and maintenance of an ACS 6000 drive.



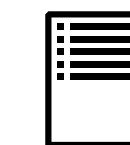
Learning objectives

Upon completion of this course, students will be able to understand the drive topology and understand the function of propulsion and drive control. They will be able to locate the hardware components, verify and replace the drive's parts and perform preventive maintenance.



Duration

4 days



Prerequisites

Marine Power Plant Basic for Technical Staff in ABB propulsion and Marine High Voltage Safety course or similar knowledge is advisable.



Venue

- Singapore
- Turgi, Switzerland

[Back to Product Overview](#)



H865

Marine ASC6080 Operation & Maintenance

The goal of this course is to train the participants in the safe operation, control, configuration, troubleshooting and maintenance of the ACS6080. The students will develop their knowledge, confidence and skills in the handling of ACS6080 Voltage Source Inverter.



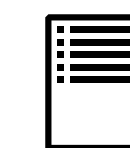
Learning objectives

The course goal is to teach students how to operate, maintain and troubleshoot the ACS6080 drive. Upon completion of this course, the students will be able to locate the hardware components, to verify and replace drive's parts and to perform preventive maintenance. The use of the available programming and troubleshooting tools is taught by practical operating exercises.



Duration

4 days



Prerequisites

- Basic knowledge of AC motors and drives
- Basic knowledge using Windows computers



Venue

- Singapore
- Turgi, Switzerland

[Back to Product Overview](#)



H866

STADT x-AC-y-z Drive

The goal of this course is to train the participants in the safe operation, control, configuration, troubleshooting and maintenance of a STADT x-AC-y-z Drive.



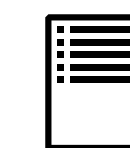
Learning objectives

Upon completion of this course, students will be able to locate the hardware components, to verify and replace the drive's parts and to perform preventive maintenance. DriveWindow is used as a programming and troubleshooting tool and is learned by practical exercises on our training drive.



Duration

4 days



Prerequisites

Marine Power Plant Basic for Technical Staff in ABB propulsion or similar knowledge is advisable.



Venue

Singapore

[Back to Product Overview](#)



04

Azipod® Propulsion



H880

Azipod® CO Technical Training

This course provides a deeper understanding of the Azipod® propulsion systems, and how to operate, maintain and troubleshoot the system components.



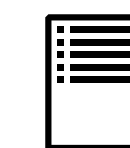
Learning objectives

Upon completion of this course the participants will have advanced knowledge of Azipod® CO system, understand the functioning of propulsion and drive control, operate and maintain ACS800 Azipod CO drive systems, and trace and correct basic faults.



Duration

5 days



Prerequisites

Participants should have attended the Marine Power Plant Basic for Technical Staff from ABB Marine Academy.



Venue

Helsinki, Finland

[Back to Product Overview](#)



H880

Azipod® DO Technical Training

This course provides a deeper understanding of the Azipod® propulsion systems, and how to operate, maintain and troubleshoot the system components.



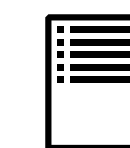
Learning objectives

Upon completion of this course the participants will have advanced knowledge of Azipod® DO system, understand the functioning of propulsion and drive control, operate and maintain ACS880 Azipod DO drive systems, and trace and correct basic faults.



Duration

5 days



Prerequisites

Participants should have attended the Marine Power Plant Basic for Technical Staff from ABB Marine Academy.



Venue

Helsinki, Finland

[Back to Product Overview](#)



H881

Azipod® VO Technical Training

This course provides a deeper understanding of the Azipod® propulsion systems, and how to operate, maintain and troubleshoot the system components.



Learning objectives

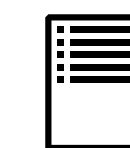
Upon completion of this course the participant will be able to:

- describe the functions of the different Azipod VO sub-systems and how they interact
- understand the importance of correct maintenance
- understand the monitoring possibilities and how to troubleshoot the discussed systems
- perform adjustments on critical system components



Duration

5 days



Prerequisites

Marine Power Plant Basic for Technical Staff and Azipod® Space Safety course from ABB Marine Academy are advisable.



Venue

Helsinki, Finland

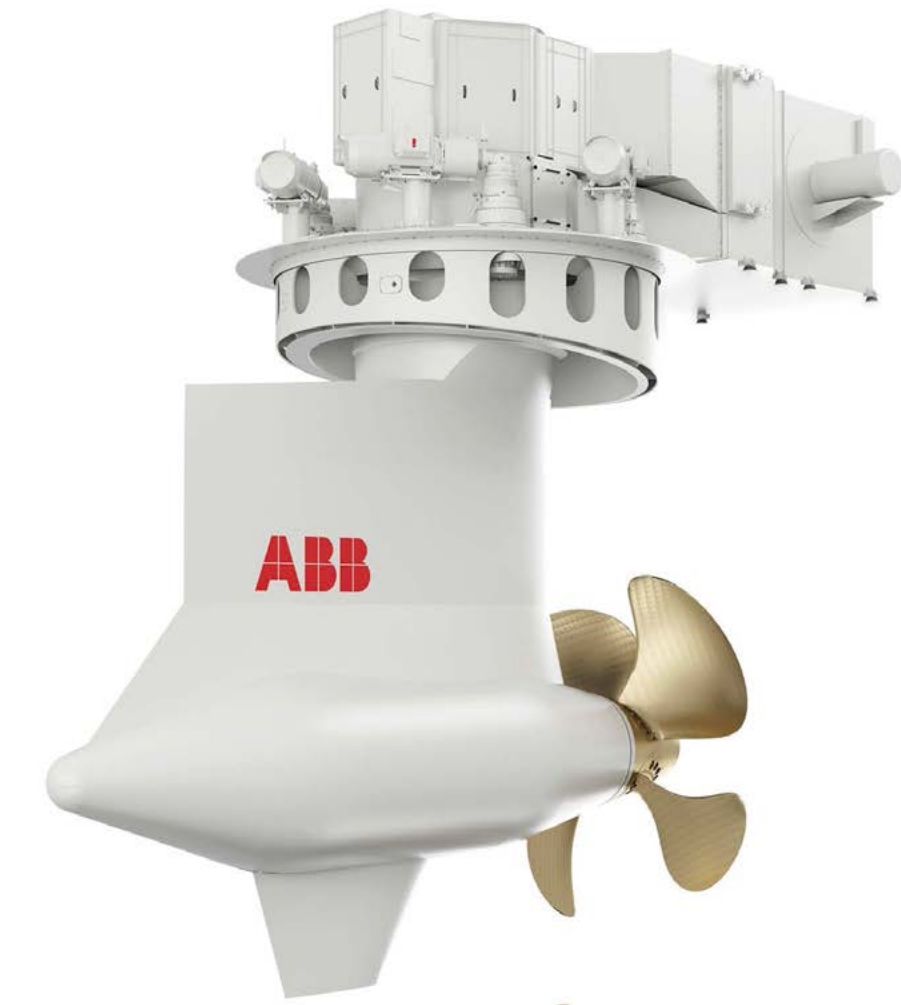
[Back to Product Overview](#)



H882

Azipod® XO Technical Training

This course provides a deeper understanding of Azipod XO propulsion system, and how to operate, maintain and troubleshoot the system components.



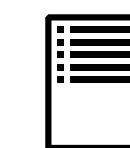
Learning objectives

Participants will be able to describe the functions of the different sub-systems of the Azipod propulsion system and how they interact. They will understand the importance of correct maintenance, be able to describe the monitoring possibilities and how to troubleshooting systems and perform adjustments on specific system components.



Duration

5 days



Prerequisites

Marine Power Plant Basic for Technical Staff and Azipod® Space Safety course from ABB Marine Academy are advisable.



Venue

Helsinki, Finland

[Back to Product Overview](#)



H929

Azipod® MO Technical Training

This course provides a basic understanding of Azipod® MO propulsion system, and how to operate, maintain and troubleshoot the system components. Participants will understand the possible risks and hazards when working in and around the Azipod® unit space, as well as learn dealing the risks.



Learning objectives

Participants will be able to describe the functions of the different sub-systems of the Azipod® propulsion system and how they interact. They will understand the importance of correct maintenance, be able to describe the monitoring possibilities and how to troubleshoot systems and perform adjustments on specific system components.

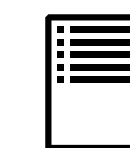
Upon completion of this part of course the participants will be able to:

- Perform adjustments on critical system components e.g. ACS880
- Know Azipod® MO main components, Azipod® MO Propulsor subsystems and their main functions
- Understand the use of ABB Technical manuals and perform proper Troubleshooting



Duration

5 days



Prerequisites

Marine Power Plant Basic for Technical Staff from ABB Marine Academy are advisable. Satisfactory health condition to be able to work inside a confined space.



Venue

Helsinki, Finland

[Back to Product Overview](#)



H886

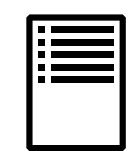
Azipod® Space Safety & Azipod® XO Technical Blended Learning

Blended learning is a combination of webinars, self-studies, classroom training, and hands-on exercises.



Duration

Theory (Remote): 2 days Teams meetings + 2 days self-studies
Hands-on (Helsinki): 5 days



Prerequisites

Marine Power Plant Basic for Technical Staff from ABB Marine Academy is advisable. Satisfactory health condition to be able to work inside a confined space.



Venue

Helsinki, Finland

This course provides a deeper understanding of the Azipod XO propulsion system, and how to operate, maintain, and troubleshoot the system components. Participants will understand the possible risks and hazards when working in and around the Azipod unit space, as well as learn how to deal with the risks and improve their readiness in the case of an emergency.

Learning objectives

Theory (Remote):

Participants will be able to describe the functions of the different sub-systems of the Azipod propulsion system and how they interact. Upon completion of this part of the course, the participants will be able to:

- identify the different hazards risks and the possible,
- consequences when working inside the Azipod unit's space.

Hands-on (Helsinki):

They will understand the importance of correct maintenance, be able to describe the monitoring possibilities, and how to troubleshoot systems and perform adjustments on specific system components. Upon completion of this part of the course, the participants will be able to:

- enter and work safely inside the Azipod unit space,
- understand the duties of confined space personnel (Entrant, Attendant, Supervisor, and Rescuer),
- attend an Entrant during normal entry,
- assist during an emergency.



H887

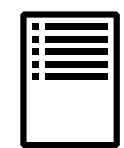
Azipod® Space Safety & Azipod® VI Technical Blended Learning

Blended learning is a combination of webinars, self-studies, classroom training, and hands-on exercises.



Duration

Theory (Remote): 2 days Teams meetings + 2 days self-studies
Hands-on (Helsinki): 5 days



Prerequisites

Marine Power Plant Basic for Technical Staff from ABB Marine Academy is advisable. Satisfactory health condition to be able to work inside a confined space.



Venue

Helsinki, Finland

This course provides a deeper understanding of the Azipod VI propulsion system, and how to operate, maintain, and troubleshoot the system components. Participants will understand the possible risks and hazards when working in and around the Azipod unit space, as well as learn how to deal with the risks and improve their readiness in the case of an emergency.

Learning objectives

Theory (Remote):

Participants will be able to describe the functions of the different sub-systems of the Azipod propulsion system and how they interact. Upon completion of this part of the course, the participants will be able to:

- identify the different hazards risks and the possible consequences when working inside the Azipod unit's space.

Hands-on (Helsinki):

They will understand the importance of correct maintenance, be able to describe the monitoring possibilities, and how to troubleshoot systems and perform adjustments on specific system components. Upon completion of this part of the course, the participants will be able to:

- enter and work safely inside the Azipod unit space,
- understand the duties of confined space personnel (Entrant, At-tendant, Supervisor, and Rescuer),
- attend an Entrant during normal entry,
- assist during an emergency
- perform adjustments on critical system components e.g. hydraulic steering gear pump, EMRI servo unit ASU36X.



H883

Azipod® Vessel Operation Operational Level

This course prepares operators for twin-Azipod vessel operation and maneuverability in normal and special conditions.



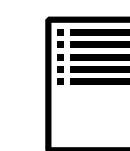
Learning objectives

Upon completion of this training, the participants will know the operational principles of Azipod propulsion systems. They will understand the flexibility of the system and will be able to identify potential malfunctions and to cope with them without sacrificing vessel safety. They will be able to communicate about the different aspects of the propulsion system in a clear and concise manner.



Duration

3 days



Prerequisites

Experience of watch keeping on modern, preferably Azipod vessels, and of bridge simulator training.



Venue

- Aboa Mare Training Centre Turku, Finland
- ABB Marine Training Centre Helsinki, Finland
- Marine Training Center Hamburg GmbH, Germany
- Simwave Maritime Center of Excellence, Rotterdam, Netherlands

[Back to Product Overview](#)



H884

Azipod® Vessel Operation, Onboard Coaching

Onboard workshop for management and operational level deck and engine personnel on twin-Azipod cruise vessel operation in normal and special operational conditions.



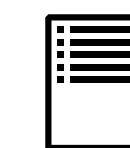
Learning objectives

The training course gives the participants an introduction, or refresher, on the operational principles of Azipod vessels taking into account vessel safety, passenger comfort, environmental and economical requirements and operation efficiency including maintenance needs.



Duration

1 or 2 days



Prerequisites

Not applicable. This training may be used as a refresher for persons who have participated in Azipod Vessel Operation, Operational or Management Level training in bridge simulator.



Venue

Onboard

[Back to Product Overview](#)



H885

Azipod® Vessel Operation, Management Level

Management level workshop on twin-Azipod cruise vessel operation and handling covering normal operation, malfunctions and bridge communication.



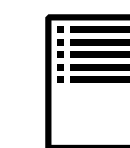
Learning objectives

Upon completion of this training, the participants will have deep understanding of the operational principles of Azipod vessels. They will be able to fully utilize the flexibility of the propulsion system and to cope with them without sacrificing vessel safety. Bridge communication about the different aspects of vessel operation and handling in a clear and concise manner is emphasized. This workshop is run in conjunction with maritime simulation center.



Duration

5 days



Prerequisites

Several years experience of Azipod vessel operations.



Venue

- MTC Marine Training Center Hamburg GmbH, Germany
- Aboa Mare Training Centre Turku, Finland
- Simwave Maritime Center of Excellence, Rotterdam, Netherlands

[Back to Product Overview](#)



H888

Triple Azipod® Vessel Operation, Operational Level

This course prepares bridge personnel for basic use and maneuverability on triple Azipod® vessels in normal and special operational conditions.



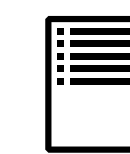
Learning objectives

Upon completion of this training, the participants will know the operational principles of a triple Azipod® propulsion systems. They will understand the flexibility of the system and will be able to utilize it to its maximum capability. Also, identifying potential malfunctions and how to cope with them without sacrificing vessels safety. They will be able to communicate about the different aspects of the propulsion system in a clear and concise manner.



Duration

3 days



Prerequisites

Experience of watch keeping on modern, preferably Azipod® vessels, and of bridge simulator training.



Venue

- Aboa Mare Training Centre Turku, Finland
- ABB Marine Training Centre Helsinki, Finland
- Marine Training Center Hamburg GmbH, Germany
- Simwave Maritime Center of Excellence, Rotterdam, Netherlands

[Back to Product Overview](#)



H889

Triple Azipod® Vessel Operation, Management Level

Management level workshop on triple Azipod® cruise vessels. Operation and handling covering normal operation, malfunctions, and bridge communication.



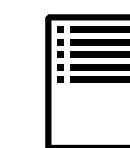
Learning objectives

Upon completion of this training, the participants will have deep understanding of the operational principles of a triple Azipod® vessel. They will be able to fully utilize the flexibility of the third Azipod® unit and learn its benefits and the advantages it gives during maneuvers in port. Also, bridge resources management will be emphasized.



Duration

5 days



Prerequisites

Experience of Azipod® vessel operations.



Venue

- Aboa Mare Training Centre Turku, Finland
- Marine Training Center Hamburg GmbH, Germany
- Simwave Maritime Center of Excellence, Rotterdam, Netherlands

[Back to Product Overview](#)



H885R

Twin or Triple Azipod® Vessel Operation refresher course, Management Level

Management level workshop on twin or triple Azipod cruise vessels. Operation and handling 'refreshment' course for advanced Azipod personnel. The course will be set in different ports, covering complex operations, malfunctions, and bridge communication.



Learning objectives

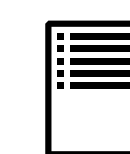
Upon completion of this training, the participants will have brushed up on their skills and acquired a deeper understanding of the operational principles of an Azipod vessel and its limitations. The progress of training never ends, all new docking principles shown and tested.

Bridge resources management will be emphasized, new ways of delivering verbal commands included.



Duration

3 days



Prerequisites

Experience of Azipod® vessel operations.



Venue

Marine Training Center Hamburg GmbH, Germany

[Back to Product Overview](#)



H931

Azipod® VI Technical Training (for ice vessels)

This course provides a deeper understanding of the Azipod® propulsion systems, and how to operate, maintain and troubleshoot the system components.



Learning objectives

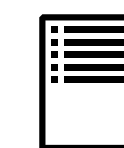
Upon completion of this course the participant will be able to:

- describe the functions of the different Azipod VI* sub-systems and how they interact
- understand the importance of correct maintenance
- understand the monitoring possibilities and how to troubleshoot the discussed systems
- perform adjustments on critical system components e.g. hydraulic steering gear pump, EMRI servo unit (ASU36X)



Duration

5 days



Prerequisites

Marine Power Plant Basic for Technical Staff and Azipod® Space Safety course from ABB Marine Academy are advisable.



Venue

Helsinki, Finland

[Back to Product Overview](#)



H938

Azipod® Vessel Operation in ice, Management Level

Management level workshop on Azipod vessel operation in multiple ice conditions and bridge communication. This course includes partly theory and simulator exercises required in Polar Code certificate.



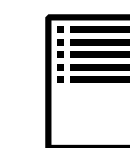
Learning objectives

Upon completion of this training, the participants will have deep understanding of the operational principles of Azipod vessels, taking into account vessel safety, environmental and economical requirements and operational efficiency and maintenance needs. They will be able to fully utilize the flexibility of the propulsion system and to cope with them without sacrificing vessel safety. Bridge communication about the different aspects of vessel operation and handling in a clear and concise manner is emphasized.



Duration

5 days



Prerequisites

Azipod vessel deck personnel at management level. H883 – Azipod® vessel operation, operational level or good experience of Azipod vessel operations.



Venue

- Helsinki, Finland
- Turku, Finland (Aboa Mare Training Centre)

[Back to Product Overview](#)



05

Automation



H893

Marine System 800xA Operation Course

The goal of this course is to train the participants how to navigate and maintain the System 800xA marine application.



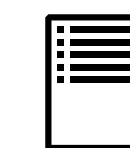
Learning objectives

Upon completion of this course, participants will be able to understand the vessel system 800xA architecture and functions. The participants could interpret information from different displays and handle alarm and event information. The participants will be able to troubleshoot and restore the system in case there are control components failure.



Duration

2 days



Prerequisites

The participants should have fundamental knowledge of vessel operation.



Venue

Singapore

[Back to Product Overview](#)



H894

Marine 800xA Automation Training

System Diagnostic and Troubleshooting – The goal of this course is to learn how to perform regular maintenance and troubleshooting on the system and how the 800xA IAMCS (Integrated Alarm, Monitoring and Control System) is designed to fit marine applications and requirements.



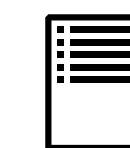
Learning objectives

After this course, students will be able to understand the philosophy of an up-to-date automation system, fully use all operator functionalities in order to maximize productivity, troubleshoot common issues reducing decision time, perform engineering activities for run-time operations, and optimize the process.



Duration

based on the agreed content



Prerequisites

Students should know the fundamentals of working with automation control system. Marine 800xA automation training for operators – Operation and diagnostic is advisable.



Venue

- Genoa, Italy
- Singapore

[Back to Product Overview](#)



H898

DEGO III Electronic Governor Systems

The goal of this course is to train the participants in safe operation, troubleshooting, tuning and basic repairs of DEGO III electronic governor systems and ASAC actuators.



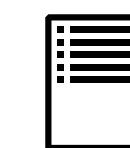
Course objectives

Upon completion of this course, students will be able to understand and identify abnormal behaviour of the DEGO systems, locate faults in the different units, repair by replacement, perform calibrations and make fine tunings. They will also be able to perform basic maintenance and repairs on ASAC actuators.



Duration

H898 DEGO III 2 or 3 days (Depending on application)



Prerequisites

Marine power plant basic for technical staff in ABB propulsion is advisable. Basic electrical knowledge is required.



Venue

Rotterdam, Netherlands

[Back to Product Overview](#)



H900

Power Management System – Electro Technical Course

The course starts from the Electrotechnical aspects of a marine AC power plant equipment to get to the operations of the ABB 800xA control system using with ABB AC800M.



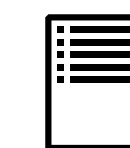
Learning objectives

After completing the course successfully, the student will have a comprehensive background of the Marine Power Management, including engineering, dimensioning, troubleshooting and fault tracing. On request, a deep insight session on several ABB products is available.



Duration

2 days



Prerequisites

Marine Power Plant Basic for Technical Staff in mABB propulsion and Marine High Voltage Safety or similar knowledge is advisable.



Venue

Genoa, Italy

[Back to Product Overview](#)



H902

AC800M applications for LNG, tankers and drilling

The goal of this course is that the participants shall be able to conduct troubleshooting as well as performing backup and recovery of the AC800M control system used in the Marine environment.



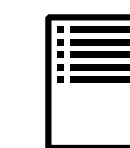
Learning objectives

Upon completion of this course, the participant will be able to explain the AC800M system configuration and function of the components. In addition the participant can troubleshoot and exchange AC800M system hardware, as well as carry out backup and recovery safely.



Duration

5 days



Prerequisites

Students should know the fundamentals of working with automation control systems and Microsoft Windows. ABB drilling drive system or similar knowledge is advisable.



Venue

Singapore, Rotterdam, Netherlands

[Back to Product Overview](#)



06

Safety and STCW



H852

HV Safety Management STCW, MCA UK Approved

This course has been designed to satisfy the HV requirements laid out in the Standards of Training, Certification and Watchkeeping (STCW), Manila Amendments, and is approved by the UK's Maritime & Coastguard Agency as satisfying the requirements laid out in MIN 494 (M).



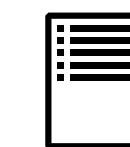
Learning objectives

Upon completion of this course, the trainees will be able to manage a high voltage installation, trouble shoot and restore marine HV systems to an operating condition. This will mean that the trainee meets the requirements laid down in the Knowledge, Understanding and Proficiencies for High Voltage installations set out in Tables A-III/2 (part) of the STCW Convention and Code 1978, as amended.



Duration

5 days



Prerequisites

Prior to the course, trainees must meet one of the following conditions:

- Prior electrical or electro-technical experience in a shipboard environment, or,
- Have completed 12 months sea time as EOW, or,
- Part of an initial electro-technical training program



Venue

Genoa, Italy

[Back to Product Overview](#)



H850

Azipod® Space Safety

Participants will understand the possible risks and hazards when working in and around the Azipod unit space, as well as learn dealing the risks and improving their readiness in the case of an emergency.



Learning objectives

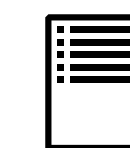
Upon completion of this course the participants will be able to:

- identify the different hazards risks and the possible consequences when working inside the Azipod unit's space
- enter and work safely inside the Azipod unit space
- understand the duties of confined space personnel (Entrant, Attendant, Supervisor and Rescuer)
- attend an Entrant during normal entry
- assist during an emergency



Duration

4 days



Prerequisites

- Satisfactory health condition
- to be able to work inside a confined space.



Venue

Helsinki, Finland

[Back to Product Overview](#)



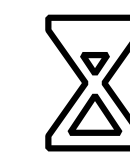
07

ABB Ability™ Marine Pilot Control & Pilot Vision



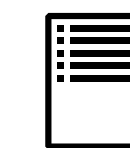
Learning objectives

Learning how to use either program correctly. This can be everything from improving 'passenger comfort in DP-mode' to 'safe docking' and the utilization of 'braking assistance'. The course will enable the user to understand the flexibility of the programs and using them to their maximum potential.



Duration

2 days



Prerequisites

None



Venue

- Helsinki, Finland
- Onboard vessel



08

General terms and conditions

Course price includes

- A qualified instructor with up-to-date technical knowledge and teaching experience
- Training room with infrastructure and training equipment
- Lunch (except Italy), coffee and refreshments
- Training documentation

Application

In order to arrange and supply the scope of the course, the purchase order and time schedule should be confirmed by the customer 4 weeks prior to the starting date of training.

Travel and accommodation costs

Airline tickets, travel time, accommodation, local transportation of the participants and meals except lunch are not included in the price. ABB Marine Academy can assist in handling accommodation and local transport. These expenses will be charged based on costs + 10% administration fee.

Changes

ABB Marine Academy reserves the right to change names of instructors, and modify the program and contents within scope of the course.

Cancellation

In case of cancellation please advise us as soon as possible. Please note that if a participant is unable to attend the course within the cancellation period the booking can be used by another person within the company.

- Cancellation 1-2 weeks prior to the course schedule: 50% of course fee will be charged
- Cancellation less than 1 week prior to the course schedule: 100% of course fee will be charged

Azipod vessel operation courses cancellation clause

- 4-6 weeks before scheduled course: 50% of course fee will be charged
- Less than 4 weeks before scheduled course: 100% of course fee will be charged

Requirements for training in locations other than ABB Marine Academy premises

Please see ABB Marine Academy Guidelines sent together with quotation for more details.



09

ABB Marine Academy locations

Partner locations: ABB University
(world wide network)

marine.academy@fi.abb.com

Rotterdam

George Hintzenweg 81
3068 AX Rotterdam
Netherlands
Phone: +31 10 407 8867

Miramar (Coordination)

11600 Miramar Parkway
FL 33025, United States
Phone: +1 9543299986

Fornebu

Snarøyvn. 30
1360 Fornebu, Oslo, Norway
Phone: +47 2287 2000

Helsinki

Merenkulkijankatu 1
00980 Helsinki, Finland
Phone: +358 10 2211

Shanghai

ABB Engineering (Shanghai) Ltd.
Deliver To:
No.5 lane 369, Chuangye Road
Kangqiao Town,
Nanhui District , Shanghai
(201319), PRC
Tel: +86(0)21 6105 6666

Singapore

2 Ayer Rajah Crescent
Singapore
Phone: +65 6776 5711

Genoa

Via al Molo Giano
16128 Genova, Italy
Phone: +39 02 3653 0967 – PIN 9001

