



Global course offering in ballast water treatment

Alfa Laval PureBallast 3 training



Why Alfa Laval PureBallast 3 training?

Training is a prerequisite for optimizing the performance of your equipment and safeguarding your investment. In the case of your ballast water treatment system, it also safeguards your compliance.

To get the most out of PureBallast 3, you need to be sure the people who work with it are equipped with the right know-how. Effective training will give them a broad understanding of how to use and maintain the system, as well as the practical skills to do so – ensuring high efficiency, correct operation and the performance you count on.

Whether at Alfa Laval's global training centres, aboard your ship, or at your convenience online, we provide the training you need to get ballast water treatment right.

With PureBallast 3 training you achieve:

- Compliance with regulatory demands
- Increased safety and equipment reliability
- Minimized operating costs and maximized equipment life
- More sailing time



Lack of crew knowledge is not a valid reason for non-compliance in ballast water treatment. In its annual report for 2017, the U.S Coast Guard (USCG) noted the potential consequences of crew failure: non-compliance, significant vessel delays and/or penalties. Alfa Laval training is one of the best ways to ensure that your PureBallast 3 system is always operated in a *safe, efficient and compliant* manner.



Who should sign up?

Complying with environmental legislation and minimizing operating costs requires engineers with knowledge and experience. Through our courses, participants gain in-depth technical expertise in PureBallast 3 systems and further hone their skills with regard to IMO and USCG regulations.

Target groups

- Deck officers
- Superintendent engineers
- Chief engineers
- Ship engineers
- Apprentices
- Retrofit engineering companies
- Vessel design companies
- Shipyard administrative and management personnel
- Ship owner administrative and management personnel

Houston, USA



Stockholm, Sweden



Mumbai, India



Manila, Philippines



About our courses

We strive to ensure that our courses fulfil your needs and are available at a site convenient for you. PureBallast 3 courses take place at Alfa Laval's facilities in Stockholm, Mumbai and Manila, as well as at our facility in Houston, Texas.

Our courses combine theory with practical exercises and are led by extremely qualified,

easily approachable and thoroughly friendly instructors – often with a keen sense of humour that livens up the learning experience.

In short, you can expect to learn from knowledgeable instructors with vast marine industry experience, who will work with you in modern facilities suited to your individual requirements.

Where can I find the course dates?

Please refer to the Alfa Laval website for the dates of currently scheduled open courses.

Alternatively, your nearest Alfa Laval sales office will be happy to support you in your training request. The Alfa Laval website can provide you with the relevant local contact information.

How do I register for a course?

Course registration takes place on the Alfa Laval wwebsite. You will find relevant information and a registration form for each course on the [PureBallast 3 training page](#).

Our general philosophy

- Theoretical and practical training combined
- Instruction in English
- Digital learning
- Continuous monitoring of customer satisfaction
- Global quality ensured by central course development at the Alfa Laval PureBallast headquarters and use of the same course plans and equipment
- Well-equipped facilities in strategic locations worldwide



PureBallast 3

Operation and maintenance for crews

Learning goals

Upon completion of this course, participants will understand the PureBallast ballast water treatment process and know how to operate and troubleshoot a PureBallast 3 system. They will also be familiar with PureBallast 3 maintenance procedures and equipment calibration needs. In total, participants will understand the responsibilities and duties involved in operating a PureBallast 3 system.

Target group

This training is aimed at participants who will operate and maintain a PureBallast 3 system on board a vessel.

Prerequisites

None

Duration

2 days

Course fee

For pricing, contact your nearest Alfa Laval sales office, who will support you in your training request. The Alfa Laval website can provide you with the relevant local contact information.

Course content

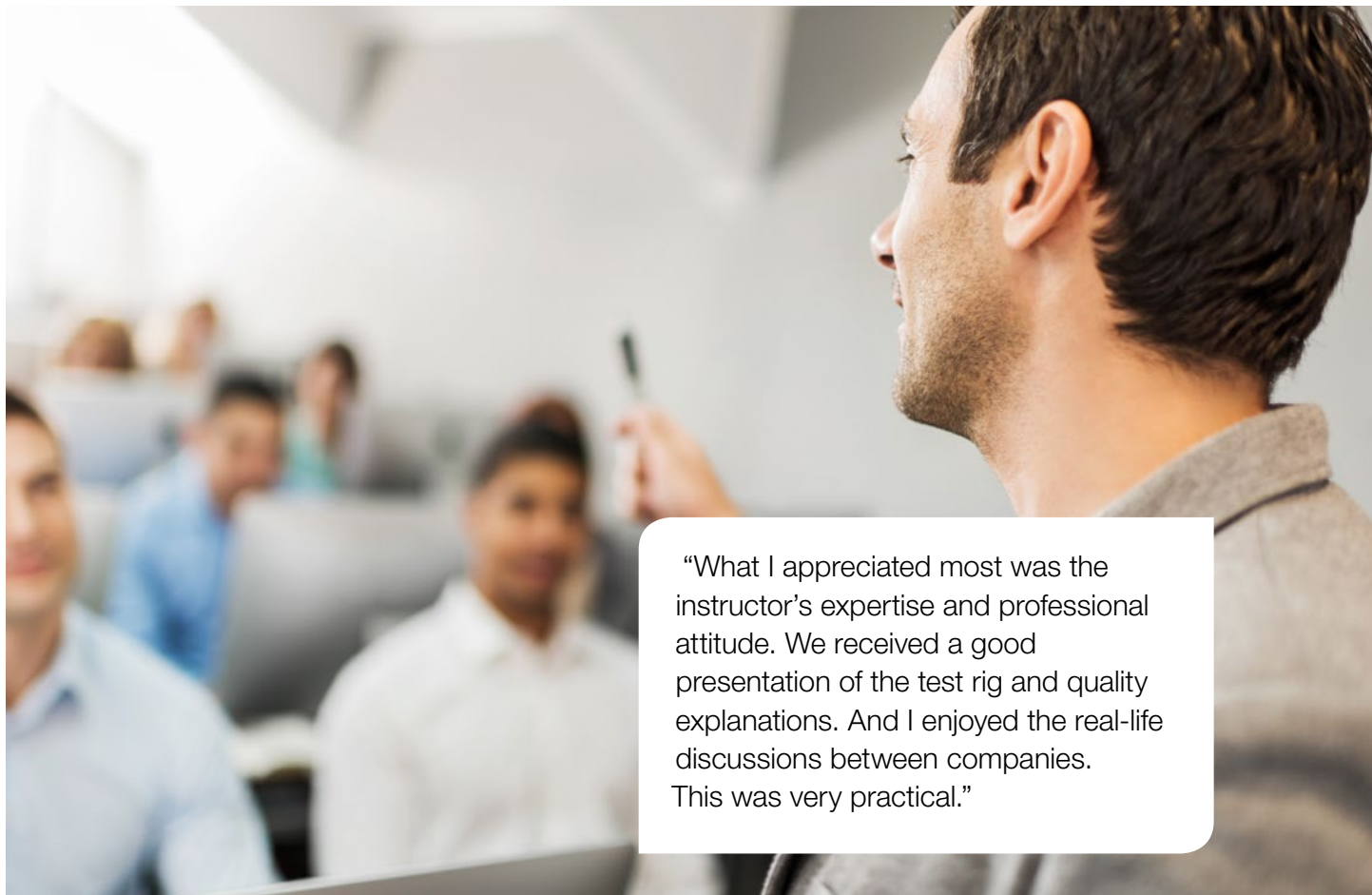
- Principles of ballast water treatment and the differences between ballast water treatment technologies
- Practical identification of PureBallast 3 system components and their function
- PureBallast 3 operation and processes
- Practical simulation of different operational conditions

- Practical maintenance and calibration of PureBallast 3
- Recommended spare parts on board

Additional notes

This training is intended to give crew members confidence in operating and maintaining a PureBallast 3 system. It combines theory and hands-on operational exercises at a training facility equipped with a full-scale PureBallast 3 system. The training is conducted at facilities in Mumbai, Manila or Houston. It can also be provided on the customer's vessel with access to the actual system that the crew will be using.





“What I appreciated most was the instructor’s expertise and professional attitude. We received a good presentation of the test rig and quality explanations. And I enjoyed the real-life discussions between companies. This was very practical.”

PureBallast 3 Retrofit engineering training

Learning goals

Upon completion of this course, participants will be able to plan, design and install a PureBallast 3 system in the swiftest manner possible. The course focuses on mechanical installation requirements and best practices, but it also covers control system integration, options and Ex systems.

Target group

This training is aimed at retrofit engineering companies and yards who will design the integration of PureBallast 3 into the vessel.

Prerequisites

Experience of design integration of equipment into a vessel.

Duration

2–3 days

Course fee

For pricing, contact your nearest Alfa Laval sales office, who will support you in your training request. The Alfa Laval website can provide you with the relevant local contact information.

Course content

- Concept, components and processes
- Installation requirements
- System integration: P&ID, pump curves and fitting
- System integration: signals and software
- Retrofit process

- Maintenance and recommended spare parts on board
- Collaboration between Alfa Laval and engineering companies
- Service package offering

Additional notes

This training is conducted at our state-of-the-art facility in Stockholm.



PureBallast 3

Basic product knowledge and operation for ship owners

Learning goals

Upon completion of this course, participants will understand the basics of the PureBallast ballast water treatment process, as well as the regulatory demands and ship owner responsibilities in complying with the IMO and USCG legislation. They will also know how to optimize the total cost of ownership of a PureBallast 3 system.

Target group

This training is aimed at ship owner administrative and management personnel, i.e. persons working with ballast water issues for a fleet who need the knowledge to support their organization internally.

Prerequisites

None

Duration

1 day

Course fee

For pricing, contact your nearest Alfa Laval sales office, who will support you in your training request. The Alfa Laval website can provide you with the relevant local contact information.

Course content

- Concept, components and processes
- Operating basics
- Maintenance and calibration basics

- Technical information regarding installation requirements and system integration
- Recommended spare parts on board
- Service package offering
- IMO and USCG regulations

Additional notes

This training is normally adjusted to the participants' interests and information needs. For example, specific emphasis can be placed on installation, service or engineering. The training is conducted at our state-of-the-art facility in Stockholm. In conjunction with the course, there is often an opportunity to meet the central PureBallast management team and the design team behind PureBallast 3.

PureBallast 3

Computer-Based Training (CBT)

Learning goals

Upon completion of this e-learning course, participants will have a practical familiarity with PureBallast 3 and its integration with the vessel's piping and tanks. The course allows trainees to explore and operate a computer-simulated PureBallast 3 system, learning how to start processes and attend to alarms.

The e-learning course is intended as a complement to face-to-face instruction, which is always recommended for in-depth PureBallast 3 crew training.

Target group

All

Prerequisites

None

Duration

1–1.5 hours

Course fee

For pricing, contact your nearest Alfa Laval sales office, who will support you in your training request. The Alfa Laval website can provide you with the relevant local contact information.

Course content

PureBallast 3 CBT is an online/offline training tool that introduces the PureBallast 3 system layout and provides an overall understanding of how to navigate the control system. It comprises three different modules:

- Self-study covering the problem of invasive species, ballast water management, PureBallast 3 components and PureBallast 3 operation
- 3D simulation of PureBallast 3 and its operation
- Self-assessment

Additional notes

As an e-learning tool, available 24/7 from anywhere in the world, PureBallast 3 CBT makes it easier to determine, improve and maintain crew competence levels with regard to ballast water treatment. In this way, it helps ship owners and operators maximize the return on their equipment investment and feel confident in adhering to IMO and USCG legislation.

For integration into the vessel's Learning Management System (LMS), contact your nearest Alfa Laval sales office, who will support you in your training request. The Alfa Laval website can provide you with the relevant local contact information.



About Alfa Laval

Alfa Laval is a leading global provider of specialized products and engineered solutions.

Our equipment, systems and services are dedicated to helping customers to optimize the performance of their processes. Time and time again.

We help our customers to heat, cool, separate and transport products such as oil, water, chemicals, beverages, foodstuff, starch and pharmaceuticals.

Our worldwide organization works closely with customers in almost 100 countries to help them stay ahead.

How to contact Alfa Laval

You can always find up-to-date Alfa Laval contact details for all countries on our website at www.alfalaval.com