Ballast Water Management

Delivery Method: eLearning || Duration: 4 hours || Course Fee: 280 €

Category: Rules and Regulations; Class & Statutory Surveys

Available languages: English

Certificate

On completion of the training program, the student will be awarded:

A Certificate of Ballast Water Management, issued by Bureau Veritas Solutions Marine & Offshore.

The Certificate of **Ballast Water Management** is obtained after completion of the course and passing the online test.

Presentation

This training course composed of 2 modules provides an overview of the requirements of the Ballast Water Management International Convention and the technical aspects related to the ballast water treatment equipment.

Whom the course is for

The course **Ballast Water Management** is aimed at anyone interested in understanding the requirements of the BWM International Convention and the technical aspects related to ballast water treatment systems. This may include: Ship Managers, Technical Superintendents, Ship Masters, Officers and Seafarers; Shipyards Technical Staff; Surveyors; P&I and/or Insurance Inspectors; Naval Architects; Marine Engineers; etc.

Objectives

On completion of the training, students will be able to:

- Understand the background of the Ballast Water Management Convention, its structure and the most important regulations
- > Know the difference between the ballast water exchange and the performance standards
- > Understand the role of all stakeholders and actors
- ▶ Be familiar with the approval, inspections, commissioning and tests of Ballast Water Management systems
- > Understand the survey and certification requirements
- Be familiar with the different technologies used and the installation requirements



Program

Module 1 - BWM Regulatory Aspects

- Background
 - Ballast water as a vector of invasive species
 - ➢ Alien species impact
 - Most unwanted species
 - Means of prevention
- ➤ The Ballast Water Management Convention
 - Timeline
 - Purpose and acceptance
 - Structure of the Convention
 - Guidelines
 - Definitions
 - Application
 - Exemptions and exceptions
 - Entry into force
 - > Implementation schedule
- Duties of the main stakeholders
 - Administrations' responsibilities
 - Ship Owners' responsibilities
- Ballast Water Management Standards
 - Ballast water exchange standards (D-1)
 - BWE safety aspects
 - ▶ Ballast water performance standards (D-2à
 - Contingency measures
 - Ballast water management system approval
- USCG Position
 - **BWM Regulation**
 - Exemptions
 - ▶ Performance standards
 - Schedule
 - BWM systems for use in US waters

Module 2 – BWM Technical Aspects

- BWM Surveys
 - Survey schedule and survey types
 - ➤ Maintenance of conformance
 - ➤ Non-conformance
 - Detainable deficiencies
- International Ballast Water Management Certificate
 - Issuance of the certificate
 - Duration and validity of the certificate
 - Form of the certificate and statement of compliance



- BWM System Approval
 - ▶ Approval types and scope
 - Approval processes
 - Basic and final approval
 - Approved systems
- Sampling
 - Sampling requirements for ballast water exchange standards (D-1)
 - Sampling requirements for ballast water performance standards (D-2)
 - Sample quality and analysis protocol
- Ballast water treatment systems technologies
 - ▶ Mechanical separation, methods and process
 - Physical disinfection
 - ▶ Chemical treatment and biocides
 - ▶ Ballast water treatment system typical operation
 - Comparison of the different technologies
- Ballast water treatment systems installation
 - Installation challenges
 - ▶ Installation options for different ship types

