

# Corrosion and Coating

Delivery Method: eLearning || Duration: 4 hours || Course Fee: 380 €

Category: Materials, Welding & NDT

Available languages: English

## Certificate

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

- A Certificate of **Corrosion and Coating**, issued by Bureau Veritas Solutions Marine & Offshore.

The Certificate of **Corrosion and Coating** is obtained after completing the course and passing the online test.

## Presentation

This training course provides a general introduction to the corrosion process, the protective coating used to prevent corrosion, the coating process and coating inspection.

## Who the course is for

The course **Corrosion and Coating** is aimed at anyone interested in understanding the corrosion process and the protective coatings used to prevent corrosion. This may include Ship Managers, Technical Superintendents, Ship Masters, Officers and Seafarers; Shipyards Technical Staff; Surveyors; P&I and/or Insurance Inspectors; Naval Architects; Etc.

## Objectives

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

- Know the different types of corrosion and their causes.
- Understand the corrosion phenomenon and the threat it represents to the structural integrity.
- Know the protective coating systems used in shipbuilding.
- Be familiar with the constituents, structure and curing prerequisites of the protective coating systems.
- Understand the different phases of the coating process and the requirements for successful coating application.
- Be familiar with coating inspection procedures and the requirements of the IMO PSPC.
- Recognise the different forms of coating failure.

## Program

### Module 1 – Introduction to Corrosion and Protective Coatings

- Corrosion definition
- Causes of corrosion
- Different forms of corrosion
- Corrosion rate
- Protective coating systems
- Paint coating components
- Types of coatings
- Technical data sheets
- Coating cure

### Module 2 – Coating Process and Inspection

- Coating process scheme
- Surface preparation
- Cleaning techniques
- Surface preparation
- Paint application
- Coating durability requirements
- Coating inspection
- Coating system documentation
- Coating inspector qualifications
- Inspection procedures and plan
- Coating defects