

# NDT – Ultrasonic Testing

Delivery Method: eLearning || Duration: 1,5 hours || Course Fee: 280 €

Category: Material, Welding & NDT

Available languages: English

## Certificate

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

- A Certificate of **NDT – Ultrasonic Testing**, issued by Bureau Veritas Solutions Marine & Offshore.

The Certificate of **NDT – Ultrasonic Testing** is obtained after completion of the course and passing the online test.

## Presentation

This training course provides an overview of the Ultrasonic Testing (UT) method for non-destructive examination of materials and welding, its objectives and principles.

## Whom the course is for

The course **NDT – Ultrasonic Testing** is aimed at anyone interested in getting familiar with this NDT technique. This may include Ship Managers, Technical Superintendents, Ship Masters, Officers and Seafarers; Offshore Units Operators and technical staff; Shipyards Technical Staff; Surveyors; P&I and/or Insurance Inspectors; etc.

## Objectives

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

- Understand the basic physical principles of ultrasonic testing.
- Know the testing procedure and the inspection process referred to the equipment used.
- Differentiate applications and the acceptance criteria applied.
- Get familiar with the purpose of calibration and reference blocks to ensure the quality of test performance and test results.

## Program

- Basic principle
  - Ultrasonic waves and propagation
  - Ultrasonic pulse-echo principle
- Equipment and testing materials
  - Ultrasonic testing instruments
  - Ultrasonic testing probes
  - Coupling media
  - Calibration and reference blocks
- Testing procedure
  - Surface preparation
  - Scanning – ultrasonic testing techniques
  - Testing parameters
  - Examination
  - Data presentation
- Applications and acceptance criteria
  - Scope
  - Indication evaluation
  - Acceptance criteria
  - Test report
- Reliability, quality of test results
  - UT system performance
  - NDT personnel competence