

NDT – Magnetic Particles 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 – Magnetic Particles Testing**, issued by Bureau Veritas Solutions Marine & Offshore.

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

Presentation

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

Whom the course is for

The course **NDT – Magnetic Particles 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 magnetic particle testing.
- Know the testing procedure and the inspection process referred to testing materials and equipment.
- Differentiate applications and the acceptance criteria applied.
- Get familiar with the purpose of reference materials and/or blocks to ensure the quality of test performance and testing results.

Program

- Basic principle
- Testing procedure
 - Surface preparation
 - Magnetization
 - Applying detection media
 - Inspection and recording
 - De-magnetization
 - Post-cleaning
- Testing materials and equipment
 - Detection media—dry and wet magnetic particles
 - Equipment for magnetization
 - AC/DC
- Applications and acceptance criteria
 - Scope
 - Indications
 - Acceptance criteria
 - Test report
- Reliability, quality of test performance
 - Verification of magnetization
 - Viewing conditions
 - Detection media
 - Magnetic flux indicators
 - NDT personnel competence