

## Magnetic Particles Testing Level-I According to ASNT

### Course general description:

Magnetic particles inspection of welding joints is an essential technique in different industrial applications such as petrochemicals, oilfields, gas fields, power plants, transportation pipelines....etc. This course is one of the American society of nondestructive testing (ASNT).

### Audience:

This course is designed for:

1. Mechanical engineers
2. Inspection engineers
3. Maintenance Engineers
4. Ships & marine spreads surveyors and inspectors

### Course objectives:

By end of the course participants will gain:

1. Necessary qualification for penetrating inspection level-i according to ASNT.
2. Knowledge and skills and qualify of participants in the following topics According to ASNT requirement: SNT-TC-1A.

### Course duration:

5 days

### Course location:

Cairo-Dubai-Istanbul

### Course contents:

#### **Day-1**

- Introduction
- Physics of penetrating testing

#### **Day-2**

- Penetrant dye
- Videos
- Q&A

#### **Day-3**

- Test piece preparation
- Fluorescent & Black lamp (UV)
- Videos
- Q&A

#### **Day-4**

- Selected applications
- Videos
- Cases
- Q&A

#### **Day-5**

- Open discussion before test
- Posttest according to ASNT

### Methodology:

- 60% lectures & concepts
- 10% Videos

- 10% Case studies
- 10% Exercises
- 10% Discussions
- Practical use of sample of ultrasonic devices & tools

**Course code: (TNDT002)**