

NDT Level II Technician

Health & Safety
Cape Town (South Africa)
10 - 14 Mar 2025

UK Training

PARTNER



NDT Level II Technician

Ref: 321777_146504 **Date:** 10 - 14 Mar 2025 **Location:** Cape Town (South Africa) **Fees:** 3300 Euro

Introduction

This course gives participants an advanced understanding of the non-destructive and destructive assessment methods using different techniques. Level II personnel must be capable of supervising trainees and NDT Level I personnel. NDT Level II is also responsible for organizing and reporting the findings of nondestructive testing.

Technicians will be able to confidently set up equipment, calibrate that equipment for correct results, conduct inspections according to best practices and procedures, and more after completing NDT Level 2 training courses. They'll also be able to comprehend, assess, and document the measurable signals they discover. NDT Level 2 will be able to demonstrate a thorough comprehension of all codes, standards, and other documents that ultimately determine how a specific NDT method will be applied in a given situation.

Course Objectives

- Set up and test equipment
- Execute and monitor tests
- Choose the NDT methodology that will be utilized for the test method
- Define the testing method's application constraints
- Prepare NDT instructions in writing
- Non-destructive testing results should be reported
- NDT codes, standards, specifications, and procedures are translated into NDT instructions that are tailored to the specific working conditions
- Interpret and evaluate the data in light of any applicable standards, codes, specifications, or procedures

Course Outlines

Day 1

- Ultrasonic Testing

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- Introduction to Ultrasonic Testing
- Basic Principles of Acoustics
- Equipment
- Transducer Operation and Theory
- Basic Ultrasonic Testing Techniques
- Principles of Ultrasonic
- Equipment Calibration
- Evaluation of Base Material Product Forms

Day 2

- Ultrasonic Testing Applications
- Phased Array
- Time of Flight Diffraction
- Guided Wave
- Evaluation Standards
- Liquid Penetrant Testing
- Introduction to Liquid Penetrant Testing
- Liquid Penetrant Processing
- Liquid Penetrant Testing Methods

Day 3

- Liquid Penetrant Testing Equipment
- Selection of Liquid Penetrant Testing Method
- Interpretation and Evaluation of Indications
- Liquid Penetrant Process Control
- Test Procedures and Standards
- Ultrasonic Testing
- Introduction to Ultrasonic Testing
- Basic Principles of Acoustics
- Equipment

Day 4

- Transducer Operation and Theory
- Basic Ultrasonic Testing Techniques
- Principles of Ultrasonic
- Equipment Calibration
- Evaluation of Base Material Product Forms
- Ultrasonic Testing Applications
- Phased Array
- Time of Flight Diffraction
- Guided Wave

Day 5

- Evaluation Standards

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- Liquid Penetrant Testing
- Introduction to Liquid Penetrant Testing
- Liquid Penetrant Processing
- Liquid Penetrant Testing Methods
- Liquid Penetrant Testing Equipment
- Selection of Liquid Penetrant Testing Method
- Interpretation and Evaluation of Indications
- Liquid Penetrant Process Control
- Test Procedures and Standards

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