NDT Level II Technician: Advanced Inspection Techniques

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London (UK)



NDT Level II Technician: Advanced Inspection Techniques

Ref: 20221777_138381_30 **Location:** London (UK) **Fees:** 6100 GBP

Why This Course

In industries where safety, quality, and reliability are paramount, advanced non-destructive testing NDT is critical. Skilled NDT technicians ensure structural integrity, prevent failures, and uphold stringent industry standards. Mastery of Level II NDT techniques empowers technicians to perform inspections with precision, interpret complex results, and guide junior staff effectively.

This intensive 1-week NDT Level II Technician program provides comprehensive training across ultrasonic, radiographic, magnetic particle, liquid penetrant, and visual testing methods. Combining theoretical knowledge with hands-on practice, the course equips participants with the skills and confidence to excel in advanced inspections and prepare for Level II certification.

What You'll Learn and Practice

By attending this course, you will:

- Master advanced NDT techniques for UT, RT, MT, PT, and VT methods.
- Calibrate, operate, and optimize NDT equipment for accurate testing.
- Perform inspections, interpret results, and identify flaws effectively.
- Prepare written instructions and guide Level I technicians.
- Apply industry codes, standards, and acceptance criteria across applications.
- Gain practical experience through hands-on exercises and realistic simulations.

The Program Flow

Day 1: Ultrasonic Testing UT

- Advanced principles of ultrasonic testing and wave propagation.
- Equipment calibration, setup, and optimization.
- Flaw detection, sizing, and interpretation techniques.
- Weld inspection procedures and practical exercises.

Day 2: Radiographic Testing RT

- Radiation safety, protection measures, and regulatory compliance.
- Ensuring image quality and accurate interpretation.
- Digital radiography techniques and weld/casting inspections.
- Hands-on practice with radiographic equipment and image evaluation.



Day 3: Magnetic Particle Testing MT

- Advanced magnetization techniques and equipment selection.
- Calibration, flaw detection, and interpretation of indications.
- Automated MT systems and practical demonstrations.

Day 4: Liquid Penetrant Testing PT

- Advanced PT materials, processes, and sensitivity optimization.
- Resolution enhancement and accurate interpretation of indications.
- Automated PT systems and hands-on application exercises.

Day 5: Visual Testing VT and Course Review

- Advanced visual inspection tools, remote inspection methods, and techniques.
- Writing NDT procedures and preparing documentation.
- Final practical exercises and comprehensive course review.

Individual Impact

- Perform and interpret advanced NDT techniques independently.
- Develop written procedures and mentor Level I technicians.
- Enhance troubleshooting and problem-solving skills for complex inspections.
- Strengthen career readiness and professional credentials in diverse industries.

Work Impact

- Improve inspection accuracy, quality, and reliability in your organization.
- Support compliance with industry standards and regulatory requirements.
- Enhance safety, operational efficiency, and risk mitigation.
- Train and guide junior technicians to raise overall team competence.

Training Methodology

This program combines theory, practical exercises, and real-world simulations for maximum skill application:

- Hands-on practice with UT, RT, MT, PT, and VT methods.
- Guided instruction on equipment calibration and testing techniques.
- Scenario-based exercises to reinforce interpretation and decision-making.
- Access to templates, documentation standards, and industry best practices.



Beyond the Course

Participants will leave ready to:

- Conduct advanced NDT inspections confidently and accurately.
- Prepare comprehensive NDT procedures and guide junior staff.
- Apply advanced techniques across multiple testing methods.
- Enhance career growth and opportunities in industries requiring certified NDT expertise.

