



INDEX NDT TRAINING INSPECTION AND SOLUTIONS



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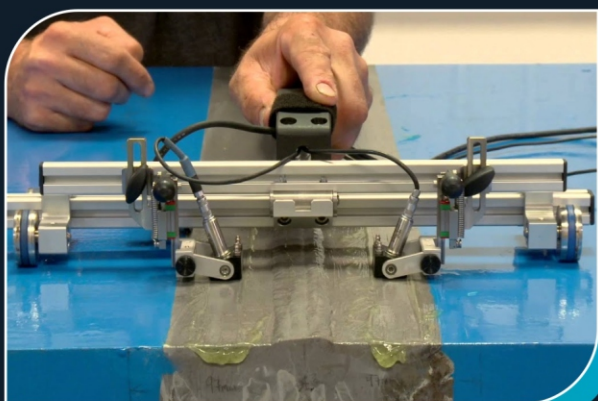
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PROFILE

INDEX NDT continuously develops its services and applications. Our NDT services are not only integrated with our AIM solutions, but also with our Material Testing laboratories and seamlessly fit into our Supply Chain Services. Our services are packaged around your assets and production processes to be utilized whenever required and efficient. Our NDT applications are endless, but a summary of applied technologies can be found below

CONVENTIONAL TESTING METHODS

- Visual Inspection
- Dye/Liquid Penetrant Testing (PT)
- Magnetic Particle Testing
- Manual Ultrasonic Testing (UT)
- Radiographic Testing (RT)
- Positive Material Identification (PMI)
- Hardness Testing (HT)



ADVANCE TESTING METHODS

- Phased Array Ultrasonic Testing (PAUT)
- Time of Flight Diffraction (TOFD)
- Tube Inspection Techniques (ECT, RFT, MFL, IRIS, NFT, ECA, NFA)
- Long Range Ultrasonic Testing (LRUT)
- Tank MFL
- Remote Visual Inspection

Above list of following test will doing and manpower supply will do INDEX NDT is primarily equipped with well experienced expert teams to conduct major operations. INDEX NDT the highest inspection standards in all parts of the world. Whenever you are based, when you procure equipment you deserve the highest standards of personnel and certification as a basis for quality assured inspection.



Visual Inspection also known as Visual Testing (VT), is the oldest, most versatile, and most commonly used non-destructive test (NDT) method.

INDEX NDT inspections can carry out UT Thickness surveys to structures, vessels, plate, pipework, rolled products, castings and forgings as well as detection of laminations in materials. UT Flaw detection can be carried out by INDEX NDT inspections to detect defects such as cracking, porosity (welds) and weld defects such as lack of penetration and lack of fusion in welds. UT Testing is widely accepted, highly reliable, proven method for detecting defects. and also do erection and fabrication.



Magnetic Particle Testing - MT is an NDT method used for the detection of surface breaking and sub surface cracking just below the surface in ferrous materials. MT is a quick and reliable test method. by applying a magnetic field externally and applying an electric current through a ferrous material and applying ferrous particle solution defects can be detected on welds, castings, forgings. INDEX NDT inspections can also carry out Fluorescent Magnetic Particle testing using a fluorescent solution and Ultraviolet (UV) "black light" for higher sensitivity testing of components.

Dye Penetrant Testing - PT uses liquid penetrant (either visible or fluorescent) to detect surface breaking imperfections or defects. PT is a reliable, Proven method for testing welds, castings, forgings and components PT is generally used for the detection of defects in non-ferrous materials. Codes are from the AWS (D1.1) and ASME (Section IX). The difference between ASME and AWS is that ASME is for welding procedure and welder qualification. AWS is for both welder and welding procedure qualification including inspection, erection and fabrication.



Phased Array Ultrasonic Testing (PAUT) provides a fast and reliable UT inspection solution for flaw detection and characterisation across multiple presentations simultaneously. Phased array NDT technology uses multiple elements fired in quick succession to produce beams that can be steered, swept and focused electronically. PAUT uses a transducer array made up of many small elements that are pulsed individually in a specific sequence.

Tube Inspection is a vital tool for the refining and petrochemical industries. Heat exchanger and condensers are designed to sustain 100% separation between the products in the tube (tube side) and the products in the vessel (shell side).



Long Range Ultrasonic Testing (LRUT) also known as Guided Wave Ultrasonic testing (GWUT) is an Ultrasonic method wherein ultrasonic waves are transmitted along the pipe wall (guiding walls) up to 180 meters in length.



WHY CHOOSE NON - DESTRUCTIVE TESTING FROM INDEX NDT?

We offer you the most effective NDT methods to investigate the integrity of your equipment and assets. Our comprehensive range of NDT methods can help you:

- ✓ Monitor the integrity of your assets using intrusive or non-intrusive methods.
- ✓ Detect defects and irregularities before the result in severe damage or non compliance.
- ✓ Save time and money through fast and effective testing of your assets and equipment at every stage of their lifespan - from manufacturing through to on-site operation.
- ✓ Ensure safe and reliable operation of your facilities.

Advantages with index NDT inspection:

All the NDT standard testing or organized and conducted seamless without break for the convenience of your production. The NDT inspection has latest equipment and technicians are well qualified and experienced technicians.

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