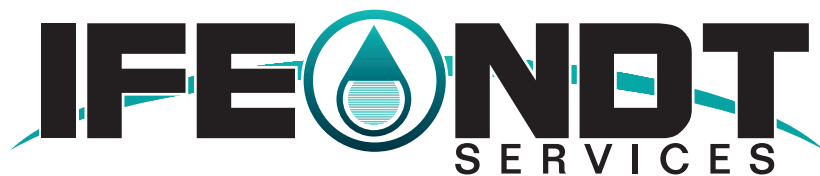


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PROFESSIONAL NDT SERVICES

Testing, Servicing and Managing
Your Hard Working Assets



Non-Destructive Testing Save Time and Money

Non-Destructive Testing (NDT) has proven to be an extremely effective way for businesses to save time and money. IFE NDT testing technologies help companies test for quality assurance and identify areas of risk or corrosion before they become problematic.

Our NDT approach is highly effective because your company assets are tested in ways that do not alter the integrity or usefulness of the equipment being examined. This makes the techniques we use incredibly useful for determining the safety and reliability of products that are currently in-use as well as those intended for future use.

IFE NDT uses the latest in NDT equipment and methods that can detect internal and external irregularities and imperfections, determine the structure or composition of materials, and make accurate measurements of the products being tested – without destroying them.

Our process saves you time and money:

Less Waste: Since substances are not altered by NDT, they can continue to be used. That means less wasted samples.

Less Downtime: Using some methods, the materials can be tested even while in use, which eliminates the need to shut down operations during testing.

Accident Prevention: Non-Destructive Testing can help prevent accidents, which helps reduce costs associated with repairs, replacement, and equipment loss and business shut down.

Identify Areas of Concern Before Failure. Components that fail can be costly to repair or replace and may lead to an unexpected shutdown of the business or in some cases, disasters. NDT can identify these areas of concern before they become a problem.

Comprehensive Testing: Since this type of testing does not alter substances, every component or product can be tested. There is no need for selective sampling, which tests only a portion of the components. NDT techniques can also be applied at multiple stages of development and construction, allowing manufacturers to identify and repair or replace problem pieces before construction is complete, as well as after the product has been put to use.

Increased Product Reliability: Advanced and more comprehensive testing ensures better products. Problems can be identified and fixed before the product goes to market, and products that are already in use can be tested more frequently to ensure they continue to perform as expected.

If you're looking for a better way to inspect and analyze the integrity, durability, and safety of your assets, consider Non-Destructive Testing with IFE NDT. You will discover our methods to be accurate and cost-effective, cutting down on the amount of time you spend conducting inspections and increasing the uptime of your equipment. We specialize in designing specialty inspection programs, documenting all testing and results online with our specialized software and track all your equipment at our facilities with our new RFID system.



Aviation

Ultrasonic Testing

Ultrasonic Testing (UT) is a category of non-destructive testing (NDT)

that applies high frequency sound waves to objects to detect flaws like cracking or to make measurements such as checking for density or thickness.

When it comes to defect detection, some of the types of flaws that can be detected with ultrasonic testing include cracks, porosity, laminations/delaminations, inclusions, and more. Weld and bond integrity can also be determined with ultrasonic testing.

*Ultrasonic Testing of Welds 3.1 Plate, 3.2 Pipes, 3.7 T Butts and Cruciforms
3.8 Nozzles and 3.9 Node welds
Ultrasonic Testing of Forgings
Ultrasonic Testing of Castings
PCN Level 3 Ultrasonic Testing of Welds*

Magnetic Testing

Magnetic Particle Inspection (MPI), also referred to as Magnetic Testing or Magnafluxing, is a non-destructive testing (NDT) methodology used to detect surface defects (plus defects located just below the surface) of ferromagnetic objects. Magnetic particle inspection is a popular NDT method because it is fairly easy to do, does not require as much cleaning or preparation to execute, is safe for both the inspector and the item being examined and relatively inexpensive as compared to other NDT techniques.

*PCN Level 2 Technicians to test welds, forgings and castings
PCN Level 3 Magnetic Testing services*

Penetrant Testing

Dye penetrant inspection, also commonly referred to as liquid penetrant inspection or penetrant testing, is a popular nondestructive testing (NDT) and evaluation technique used to detect surface flaws on components used in the aerospace, power generation, military, construction and manufacturing industries, among others.

*PCN Level 2 Technicians Penetrant Testing service
PCN Level 3 Penetrant Testing service*

Eddy Current Testing

Surface inspection is used extensively in the aerospace industry. The technique is very sensitive and can detect tight cracks. Surface inspection can be performed both on ferromagnetic and non-ferromagnetic materials. Tubing inspection is generally limited to non-ferromagnetic tubing and is known as conventional eddy current testing. Conventional ECT is used for inspecting steam generator tubing in nuclear plants and heat exchangers tubing in power and petrochemical industries. The technique is very sensitive to detect and size pits.

*PCN Level 2 Technicians Eddy Testing service
PCN Level 3 Eddy Testing service*

Visual Testing

The most basic NDT method is visual examination. Visual examiners follow procedures that range from simply looking at a part to see if surface imperfections are visible, to using computer controlled camera systems to automatically recognize and measure features of a component.

Visual Testing (VT) requires line-of-sight contact with the portion of the specimen to be inspected, adequate illumination of the test specimen, a thorough understanding of the nature and origin of discontinuities and potential defects within the test object, and familiarity with the specifications controlling the inspection process.



Infrastructure



Amusement



Marine



Manufacturing



Oil & Gas



Construction



Iron Recertification

1. Visual Inspection – The initial inspection for every asset is performed examining internals and externals for any irregularities including erosion, cracking, pitting, etc.

2. Magnetic Particle Inspection (MPI) – A test performed by Level II certified technicians to identify relevant and non-relevant indications. The results are stored in the ProFlow Management Database.

3. Ultrasonic Thickness Inspection (UTT) – Every piece of iron undergoes an ultrasonic examination to meet or exceed customer and OEM requirements.

4. Union Sub End Gauging - Through the use gauges we detect unacceptable wear of hammer union sub ends, wing halves, swivel ball races, and retaining segments.

5. Hydrostatic Pressure Testing – Pressure testing capabilities ranging from 50-22,500 psi performed inside engineered blast test enclosures with electronic nVision charts and stored for each tested piece within the ProFlow Management Online Database.

6. Rebuild/Repair – IFENDT has the advanced knowledge and capabilities to rebuild/repair any high pressure iron assets.

Ask about our RFID Tracking and Banding Solutions



ProFlow Management NDT Suite is a online real-time NDT tracking software program offering work order entries, inventory tracking, invoice and ticket options for inspectors, customers, and users to monitor. Our software provides permission levels for your company to insure the end users view only the relevant data they need to perform their duties.

Contact us today to see how ProFlow Management can benefit your company.

