

## What is NDT?

NDT covers a wide range of methods that are utilized in different industries such as aerospace, automotive, energy, manufacturing, construction, and more. NDT techniques enable inspectors, engineers, and technicians to assess, interpret, and analyze the internal and external characteristics of objects or components, detect flaws or defects, analyze material properties, and ultimately guarantee their fitness for purpose.

Many different NDT methods are available in the industry, each of them having its own advantages and limitations, but six of them are most frequently used: ultrasonic testing (UT), radiographic testing (RT), electromagnetic testing (ET), magnetic particle testing (MT), liquid penetrant testing (PT) and visual testing (VT). Other techniques include acoustic emission testing (AE), guided wave testing (GW), laser testing methods (LM), acoustic resonance testing (ART), leak testing (LT), magnetic flux leakage (MFL), vibration analysis (VA), and infrared testing (IR).

NDT professionals are trained to understand and interpret the results obtained from these techniques, providing accurate evaluations, recommendations, and solutions to ensure the safety, performance, and reliability of components and structures in a wide range of industry sectors.