

# EDDY Current Testing

## Level 1 (Weld)

### Description

The Level 1 course is a basic course in eddy current. This course required personnel to have a mid level understanding of mathematics and physics, as these are the basic of the inspection technology used. Eddy current inspection is one of the several NDT methods that use the principle of "electromagnetism" as the basis for conducting examination. Candidates on completion of the course will able to calibrate eddy current instruments and ability to understand the eddy current impedance plane response, student are trained to perform conductivity, lift off, thickness, flaw detection application and finally produce acceptable reports.

### Course Content

- History of Eddy Current Testing
- Electrical Theory
- Current Flow and Ohm's Law
- Electrical Circuits
- Magnetism
- Alternating Current
- Electromagnetism
- Impedance
- Vectors
- Principles of Eddy Current Testing
- Types of Inspection Coils
- Test Coil, Arrangements
- Eddy Current Instrument Circuits
- Indicating Devices
- Properties Affecting Eddy Currents

**Duration : 5 Days**

**Pre-requisites for attending this course**  
**NONE**

