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Non Destructive Testing (NDT) – Ultrasonic Testing (UT) Weld

COURSE CONTENT

- Basic Principles of Sound
- Generation and Detection of Sound
- Behaviour of Sound in a Material
- The Flaw Detector
- Use of Angled Beam Probes for Weld Scanning
- Welding Processes and Weld Defects
- Practical Exercises on Test Specimens containing Simulated Flaws
- Examination of Parent Plate, Butt Welds
- Instruction Writing

The course ends with the certification examination.

TARGET GROUP

All personnel including testers, inspectors, engineers and surveyors who require a thorough and comprehensive introduction to ultrasonic testing of welded joints.

LOCATION

Malaysia

OBJECTIVES

- To explain the theoretical background of the techniques
- To calibrate ultrasonic equipment
- To measure the thickness of steel plates and determine levels of attenuation
- To locate and evaluate laminations
- To select the correct type of probe to examine welded butt joints in steel plate and aerospace components/structures
- To report on the location and size of defects in typical welded butt joints
- To interpret code requirements
- To meet the syllabus requirements for PCN/CSWIP Levels 1 and 2.

TRAINING REQUIREMENT

The minimum required duration of training, which includes both theoretical and practical elements, is:

- Level 1 - 40 hours
- Level 2 - 80 hours (Direct Level 2: 120 hours)

