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Non Destructive Testing (NDT) – Ultrasonic Testing (UT) Thickness Measurement

COURSE CONTENT

- Principles of Ultrasonics
- Properties of Sound
- Waves, Frequencies, Sound Beam, Attenuation
- Thickness Gauges and Flaw Detectors
- Ultrasonic Compression Probes
- Calibration Blocks, Calibration, Sensitivity, Sizing Techniques
- Practical Exercises on Various Test Specimens
- Testing of Parent Plates
- Lamination and Thickness Measurement
- Report and Instruction Writing

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)

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

