

August 16th – September 3rd – 3 Weeks

CSWIP1 - TWI EN 473 Manual & Encoded Phased Array Inspection of Welds Training and Certification

Principles of phased array inspection; principles of phased array probes; principles of inspection sensitivity; phased array instrument; scanning with phased array probes; calibration and checks; software for data collection and data analysis; principles of data analysis; software familiarity; use of software tools for defect detection and sizing; data analysis; procedures for verification of flaw existence and position; reporting.

Objectives

- To explain the theoretical background of phased array applications
- To correctly select probe/wedge to examine welded butt joints
- To calibrate and set up the phased array ultrasonic equipment
- To locate and evaluate flaws in the weld body, HAZ, and parent metal lamination
- To analyse scan data for location and size of defects in typical welded butt joints
- To accurately report weld condition
- To differentiate defects from geometric features
- To compile a written instruction
- To meet the CSWIP syllabus requirements

Suitable for

Experienced Level 2 qualified ultrasonic technicians looking to expand their knowledge and gain a qualification in manual and encoded phased array ultrasonic testing (PAUT).

Duration

15 days (120 hours) including examination.

Additional Information

Candidates with previous training in Phased Array UT may be eligible for a reduction of the total training hours required for CSWIP certification. Please contact Customer Services for further information. Candidates are to provide evidence of the training received: a certificate of attendance and a copy of the training syllabus BOTH authenticated by a senior responsible person in the candidate's employing organization or a major client. This shall be passed to the Training Centre for approval.

This course leads to an internationally recognized CSWIP certification, both fully compliant with EN 473 and ISO 9712 certification schemes.

Entry Requirements

Candidates must be qualified to a minimum of EN 473 or ISO 9712 (CGSB) Level 2 Ultrasonic Testing. CSWIP certification is available for candidates holding ASNT UT Welds. Experience will be considered on an individual basis and evidence of training and experience presented to the training centre on application. Additionally, holders of ASNT UT Welds qualification will be required to sit the CSWIP UT Welds Level 2 General Paper.

