



CSWIP ULTRASONIC TESTING (UT) - WELDS

Is it for me?

This course is suitable for all personnel including testers, inspectors, engineers and surveyors who require a thorough and comprehensive introduction to ultrasonic testing of welded joints.

This course is also suitable for personnel working in the aerospace industry and can be found under the Aerospace section.

What will I learn?

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.

What will I leave with?

By the end of the course, you should be able to:

- Explain the theoretical background of the techniques
- Calibrate ultrasonic equipment
- Measure the thickness of steel plates and determine levels of attenuation
- Locate and evaluate laminations
- Select the correct type of probe to examine welded butt joints in steel plate and aerospace components/structures
- Report on the location and size of defects in typical welded butt joints
- Interpret code requirements
- Meet the syllabus requirements for CSWIP Levels 1 and 2

What else should I know?

This direct access Level 2 training course meets the 120 hour training requirement for BS EN ISO 9712 certification.

Level 1 training and examination can be catered for within the Level 2 course if required

ENTRY REQUIREMENTS

There are no mandatory course entry requirements.

TRAINING REQUIREMENTS

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)

The training hours requirement is fulfilled when candidates attend one of TWI's training courses.

CERTIFICATION REQUIREMENTS

- The minimum duration for experience prior to or following success in the qualification examination is:
- Level 1 - 3 months
- Level 2 - 9 months (Direct Level 2: 12 months)

Certification will not be issued until successful completion of the examination and the required experience is achieved.