



# 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)

### 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.



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TRAINING APPLICATION

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