

ISO 9712 UT

Ultrasonic Testing - Level 2



SECTOR:
WELDS 3.1 & 3.2

Certification/Awarding Bodies
CSWIP ISO 9712

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.

Training in accordance with requirements of BS EN ISO 9712.

Course 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 CSWIP Levels 1 and 2

Course Duration : 15 days Training + 2 days Examination

Course Timing : 9:00 AM to 5:30 PM

Course & Exam Fees : S\$ 2300 only

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.

Blended learning option

If time is an issue, please consider our blended learning option—study theory and concepts when and where you choose, then join the classroom sessions for hands-on practical.

Entry requirements

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.

YOUR PARTNER FOR SUCCESS



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