



Senior Welding Inspection:

Senior Welding Inspectors often supervise teams of welding inspectors to deliver compliance of welded products and structures.

Course Objectives:

- To understand the various facets of welding inspection and quality control
- To assess the validity of a welding procedure
- To recognise origins of weld defects
- To set up and report on inspection of welds, macro-sections and other mechanical tests
- To interpret features of a fracture surface and prepare detailed reports
- To scrutinise and correct inspection reports
- To plan, organise and supervise use of skilled inspectors and NDT personnel
- To conduct pre-, during and post welding audits
- To be in a position to pass the relevant examination

Examination Procedure:

Senior Welding Inspector (Level 3) Certification 3.2.1 / 3.2.2

Candidates who do not already hold a Welding Inspector (Level 2) certificate (with the exception of mature candidates') must also complete the full Welding Inspector examination in addition to the procedure outlined below.

Written examination:

This consists of a series of narrative questions covering the syllabus.

Practical examination:

- Scrutinise and comment on three inspection related documents.
- Examine and report on two separate weld failures associated with defects
- Scrutinise and interpret a fabrication drawing

Supplementary Radiographic Interpretation:

Candidates who hold a valid Senior Welding Inspector 3.2.1 may at any time during the life cycle of this qualification take the radiographic interpreter supplementary examination to gain the 3.2.2 Senior Welding Inspector.

Written Examination:

The written examination consists of multiple choice questions and is designed to test the candidate's knowledge of the syllabus

Practical Examination:

Candidates are required to conduct five density readings and answer five sensitometry questions.

As a minimum interpret six radiographs for Group A, if additional groups are required then candidates must interpret three radiographs for each additional group.

Course Contents:

- Function and Responsibilities of a Senior Welding Inspector
- Defects in Welds
- Weld Symbol Interpretation
- Interpretation of NDT Reports
- Documentation of Welding
- Approval and Certification Procedures
- General Principles of Supervision
- Case Studies; Planning; Organisation
- Interpretation of Fractured Surfaces
- Auditing
- Practice in Typical Examination Questions
- Course Assessments.

Eligibility Criteria:

- Certified Welding Inspector (Level 2) for a minimum of 2 years with job responsibilities

or

5 years' authenticated experience related to the duties and responsibilities with CSWIP 3.1 Certificate

or

In either case above candidates must hold a valid CSWIP Level 2 (3.1) Certificate.

Course & Exam Duration - 05 days