

3.1

Welding Inspector - Level 2



Suitable for

Inspection engineers and supervisory staff, and for those in preparation for the CSWIP Welding Inspector examination.

Personnel with little or no previous welding experience are advised to attend the Certificate in Visual Inspection of Welds course to prepare for this course.

Entry requirements

Welding Inspector for a minimum of 3 years with experience related to the duties and responsibilities listed in Clause 1.2.2 of CSWIP document WI-6-92, under qualified supervision, independently verified OR

Certified Visual Welding Inspector (Level 1) for a minimum of 2 years with job responsibilities in the areas listed in 1.2.1 and 1.2.2 of CSWIP document WI-6-92 OR .

Welding Instructor or Welding Foreman/Supervisor for a minimum of 5 years.

In addition to all the above, candidates must comply with Clause 1.3.4 of document WI-6-92 available at www.cswip.com. Experience will need to be verified by either your previous/present employer/company.

Certification/Awarding Body CSWIP

- Course Duration** : 5 Full days or 1 Week (part-time)
+ 1 day Examination
- Course Timing** : 9:00 AM to 5:30 PM Full days
6:00 PM to 10:00PM Mon- Sat Evening
- Course & Exam
Package Fee** : **S\$ 3150 + GST**

Course content

The duties and responsibilities of a welding inspector; fusion welding processes; typical weld defects; types of steel; carbon-manganese, low alloy and stainless steels; hardening of steels; weldability; heat treatment; parent metal defects; visual inspection; testing parent metals and welds; destructive tests; NDT techniques; welder and procedure approval; codes and standards; outline of safe working practices; practice in examination questions; continuous and end of course assessment.

In addition, candidates can purchase TWI's online CSWIP Welding Inspector Pre-Learning package which prepares them for the course.

Course objectives

- To understand factors which influence the quality of fusion welds in steels
- To recognise characteristics of commonly used welding processes in relation to quality control
- To interpret drawing instructions and symbols to ensure that specifications are met
- To set up and report on inspection of welds, macro sections and other mechanical tests
- To assess and report on welds to acceptance levels
- To confirm that incoming material meets stipulated requirements and recognise the effects on weld quality of departure from specification
- To be in a position to pass the Welding Inspector - Level 2 examinations



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