

CSWIP-WI-6-92 Welding Inspector Scheme: Summary of Changes

Main Document

Clause 1.3.2: WI Required Experience Prior to Exam

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>A minimum of 3 years welding inspection experience related to the duties and responsibilities listed in Clause 1.2.1 and 1.2.2 under qualified supervision, independently verified.</p> <p>or</p> <p>CSWIP Visual Welding Inspector for a minimum of 2 years with job responsibilities in the areas listed in 1.2.1 and 1.2.2 above.</p> <p>or</p> <p>CSWIP Welding Instructor or CSWIP Welding Foreman/Supervisor for a minimum of one year.</p>	<p>A minimum of 3 years welding inspection experience related to the duties and responsibilities listed in Clause 1.2.1 and 1.2.2 under qualified supervision, independently verified</p> <p>or</p> <p>CSWIP Visual Welding Inspector for a minimum of 2 years with job responsibilities in the areas listed in 1.2.1 and 1.2.2 above</p> <p>or</p> <p>CSWIP Welding Instructor or CSWIP Welding Foreman/Supervisor for a minimum of one year.</p> <p>In addition to all of the above, candidates must comply with Clause 1.3.4.</p>

Clause 1.3.5: Heath/Eyesight

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>...An eyesight test certificate must be submitted with the application form issued by a medically recognised person, to provide proof of near visual acuity unaided, uncorrected or corrected in at least one eye, such that the candidate is capable of reading Times Roman N5 fonts or Jaeger Number 1 fonts or equivalent sized letters...</p>	<p>...An eyesight test certificate must be submitted with the application form issued by a medically recognised person within the previous 12 months, to provide proof of near visual acuity unaided, uncorrected or corrected in at least one eye, such that the candidate is capable of reading Times Roman N5 fonts or Jaeger Number 1 fonts, or equivalent sized letters...</p>

Clause 2.2.2: Practical Exam Format for VWI & WI

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>Candidates will be required to inspect and report on the following:</p> <p>a) Two examination objects or eight examination specimens</p> <p>and, in addition, for the Welding Inspector grade only</p> <p>b) A set of destructive tests (two macros or two bends or two fractured fillets) for a welder or procedure approval test intended to comply with a stated specification.</p>	<p>Candidates will be required to inspect and report on eight examination specimens.</p>

Clause 2.3.1 & 2.3.2: SWI Examination Format

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>2.3.1 Written examination</p> <p>The written examinations consist of multiple choice questions and are designed to test the candidate's knowledge of the syllabus.</p> <p>2.3.2 Practical Examination</p> <p>Candidates will be required to:</p> <ul style="list-style-type: none">a) Scrutinise four inspection related documents.b) Scrutinise and interpret a fabrication drawingc) Answer multiple choice questions based on the TWI Specification	<p>2.3.1 Examination</p> <p>The written examinations consist of multiple choice questions and are designed to test the candidate's knowledge of the syllabus.</p> <ul style="list-style-type: none">a) General knowledge question paper.b) Scrutinise four NDT-related documents.c) Scrutinise and interpret a fabrication drawing.d) Answer multiple choice questions based on the TWI Specification.

Clause 2.4: Supplementary Radiographic Interpretation

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>Candidates who hold a valid Senior Welding Inspector 3.2.1 may at any time during the life cycle of this certification take the radiographic interpreter supplementary examination to gain the 3.2.2 Senior Welding Inspector.</p>	<p>Candidates who hold a valid Senior Welding Inspector 3.2.1 may take at any time during the life cycle of this certification the radiographic interpreter supplementary examination to gain the 3.2.2 Senior Welding Inspector.</p> <p>N.B. CSWIP Senior Welding Inspector with Radiographic Interpretation does not comply with ISO 9712 requirements.</p>

Clause 4.3: Unsuccessful Candidates

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>Candidates who are unsuccessful in the retest will be required to re-take the full approved course followed by the full examination. If a candidate fails a practical part of the Welding Inspector examination they are allowed a second retest on that part, if they have one day's approved training before taking the second retest, this option only applies to candidates who have taken the full CSWIP approved course of training in accordance with section 1.3.4 and the second retest must be taken within one year of the initial examination, no extra time will be given under any circumstances for a second retest.</p>	<p>Candidates who are unsuccessful in the retest will be required to re-take the full approved course followed by the full examination.</p>

Clause 4.5.1: Five Year Renewal

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>In order for the certificate to be renewed after five years, the holder has to demonstrate that he/she has maintained his/her competence by:</p> <p>i) providing evidence of continuous work activity in welding inspection; and</p> <p>ii) providing evidence that the holder has kept up to date in welding technology.</p>	<p>In order for the certificate to be renewed after five years, the holder has to demonstrate that they have maintained their competence by:</p> <p>i) providing evidence of continuous work activity in welding inspection; and</p> <p>ii) providing evidence that the holder has kept up to date in welding technology; and</p> <p>iii) providing evidence of satisfactory visual acuity in accordance with Clause 1.3.5. The eyesight test must have been completed within the 12 months prior to renewal.</p>

Clause 4.5.2: Practical Exam Format (all)

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>The 10 year examination for Visual Welding Inspector will consist of a practical visual inspection of a plate butt weld examination object or eight examination specimens.</p> <p>The 10 year examination for Welding Inspector (and Senior Welding Inspector 3.2.1) will consist of the following:</p> <p>Multiple choice general paper</p> <p>Practical visual inspection of a plate butt weld examination object or eight examination specimens</p>	<p>The 10 year examination for Visual Welding Inspector will consist of a practical visual inspection of eight examination specimens.</p> <p>The 10 year examination for Welding Inspector (and Senior Welding Inspector 3.2.1) will consist of the following:</p> <p>a) Multiple choice general paper</p> <p>b) Practical visual inspection of eight examination specimens</p>

Appendices

Appendix 1: Examination Syllabus

Clause 1.1: VWI Practical Exam Part A1 format

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>Practical Part A1: Inspection of a plate butt weld examination object or eight examination specimens to a code provided by the Test Centre. Time allowed 2 hours</p>	<p>Practical Part A1: Inspection of eight examination specimens to a code provided by the Test Centre. Time allowed: 90 minutes.</p>

Clause 1.2: VWI Subjects

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
d) Welding processes Basic features of manual and mechanised flux shielded and gas shielded arc processes, gas welding and electroslag welding.	d) Welding processes Basic features of manual and mechanised welding processes.

Clause 2.1: WI Examination Format

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>Theory Part A2: General Welding Theory, Product Technology and NDT 30 multiple choice questions. Time allowed 45 minutes.</p> <p>Theory Part B2: Specific Welding Technology. 60 multiple choice questions. Time allowed 1hr 30mins.</p> <p>Practical Part A2: Inspection of a plate butt weld examination object and a pipe butt weld examination object or eight examination specimens to a code provided by the Test Centre. Time allowed 1hr 30mins.</p> <p>Practical Part C2: Inspection of a set of destructive test samples to a code provided by the Test Centre (two macros, two bends or two fractures). Time allowed 45mins.</p>	<p>Theory Part 1: Welding Inspection Theory 80 multiple choice questions. Time allowed: 2 hrs 30 minutes.</p> <p>Theory Part 2 Questions relating to WPS's and welder certifications 40 multiple choice questions. Time allowed: 1 hour 30 minutes.</p> <p>Practical Part 1: Inspection of eight examination specimens to a code provided by the Test Centre. Time allowed: 1 hour 30 minutes.</p>

Clause 3.1: SWI Examination Format

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
<p>Theory Part A3): General Welding Theory, Product Technology and NDT, 30 multiple choice questions, time allowed 45 minutes.</p> <p>Practical Part B1: Scrutinise and comment on four inspection related documents, 40 multiple choice questions, time allowed 75 minutes.</p> <p>Practical Part C3: Scrutiny and interpretation of a fabrication drawing. 10 multiple choice questions, Time allowed 20 minutes.</p> <p>Practical Part D3: TWI Specification, 60 multiple choice questions, time allowed 90 minutes.</p>	<p>Theory Part A3: General Welding Theory, Product Technology and NDT. 30 multiple choice questions. Time allowed: 45 minutes.</p> <p>Theory Part B1: Scrutinise and comment on four NDT-related documents. 40 multiple choice questions. Time allowed: 75 minutes.</p> <p>Theory Part C3: Scrutiny and interpretation of a fabrication drawing. 10 multiple choice questions. Time allowed: 30 minutes.</p> <p>Theory Part D3: TWI Specification. 60 multiple choice questions. Time allowed: 150 minutes.</p>

Clause 4.2: SWI Subjects

<u>16th Edition July 2021</u>	<u>17th Edition June 2024</u>
Radiographic Interpretation	Review of Radiographs

Appendix 2: Review of Radiographs (Welds) Syllabus

Title change from “Radiographic Interpreter” to “Review of Radiographs.”