



CERTIFICATION SCHEME FOR PERSONNEL

DOCUMENT NO. CSWIP – 11 – 01

Requirements for the Certification of Plant Inspectors

Categories of Certification:

Plant Inspector Level 1
Plant Inspector Level 2 (basic)
Plant Inspector Level 2A, 2B, 2C (Endorsements)
Plant Inspector Level 3 (basic)
Plant Inspector Level 3A to 3I (Endorsements)

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Issued under the authority of the Governing Board for Certification
All correspondence should be addressed to:
TWI Certification Ltd
Granta Park
Great Abington
Cambridge CB21 6AL
United Kingdom

Telephone: +44 (0) 1223 899000
Fax: +44 (0) 1223 894219
Email: twicertification@twi.co.uk
Web: www.cswip.com

CSWIP is administered by TWI Certification Ltd
The use of the UKAS Accreditation Mark indicates accreditation in respect of those activities covered by Accreditation Certificate No 25

FOREWORD

The Certification Scheme for Personnel (CSWIP) is a comprehensive scheme that provides for the examination and certification of individuals seeking to demonstrate their knowledge and/or competence in their field of operation. The scope of CSWIP includes Welding Inspectors, Welding Supervisors, Welding Instructors, Underwater Inspection Personnel and NDT personnel.

CSWIP is managed by the Certification Management Board, which acts as the Governing Board for Certification, in keeping with the requirements of the industries served by the scheme. The Certification Management Board, in turn, appoints specialist Management Committees to oversee parts of the scheme. All CSWIP Boards and Committees are comprised of member representatives from relevant industrial sectors and other interests.

This document covers CSWIP Plant Inspector at three levels of certification (Level 1, Level 2 and Level 3).

ACCESS TO CERTIFICATION

Access to certification schemes is not improperly restricted. The sole criteria for certification are as given in the appropriate document (and any subsequent amendments) and no other criteria will be applied. Certification is not conditional on the candidate applying for other services or membership from TWI Certification Ltd, its parent, or any other group or associations.

1 GENERAL

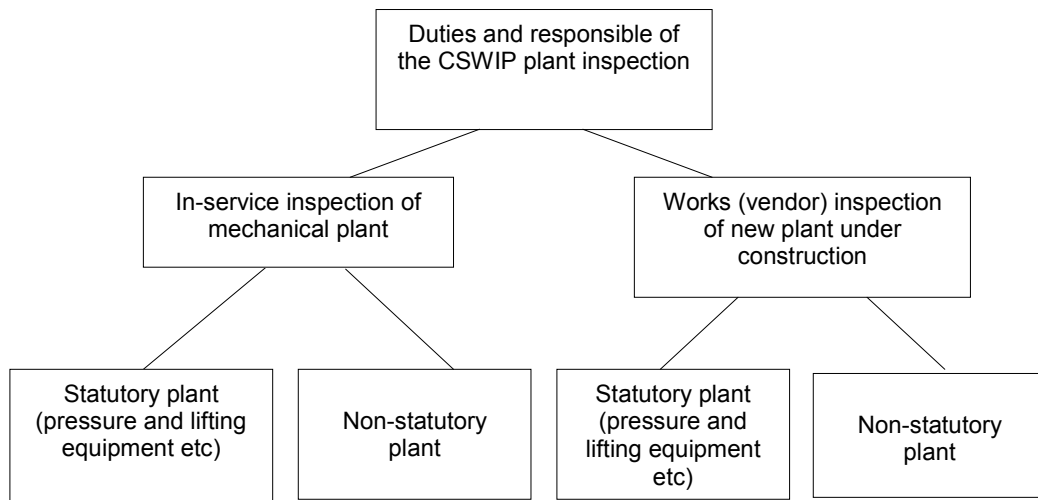
Given the increasing demands of integrated asset management within process plant and the increasing complexity of plant systems themselves and the legislative background in the EU and overseas, it is recognised that a need exists for a formal Plant Inspector certification scheme. To be effective, a certification scheme needs to ensure that plant inspectors have sufficient training and practical experience before being adjudged competent to perform statutory or non-statutory inspections on engineering plant.

TWI Certification Ltd has responded to this need by offering a formal Plant Inspection certification scheme. The certification scheme is regulated by the Certification Management Board of TWI Certification Ltd.

CSWIP Plant Inspector certification is seen as conferring renewable international certification at three levels (Level 1, Level 2 and Level 3).

The scheme will add value to plant asset management by being applicable to both 'works' and in-service inspection. It will cover both statutory and non-statutory equipment and be universal i.e. not tied to one specific plant inspection code. Equally, it is recognised that there will be some sector-specific and plant-specific topics covered at the appropriate level and depth (e.g. for power generation, offshore and chemical process/refineries sectors). The scheme allows for increasing specialisation at Level 2 and Level 3, with Level 1 as the entry general level. Training and competence assessment for statutory plant (pressure and lifting equipment) is given special significance by the addition of specialised endorsements at Levels 2 and 3. Fig 1 shows the general scope of the scheme.

Fig 1: Overall scope of scheme



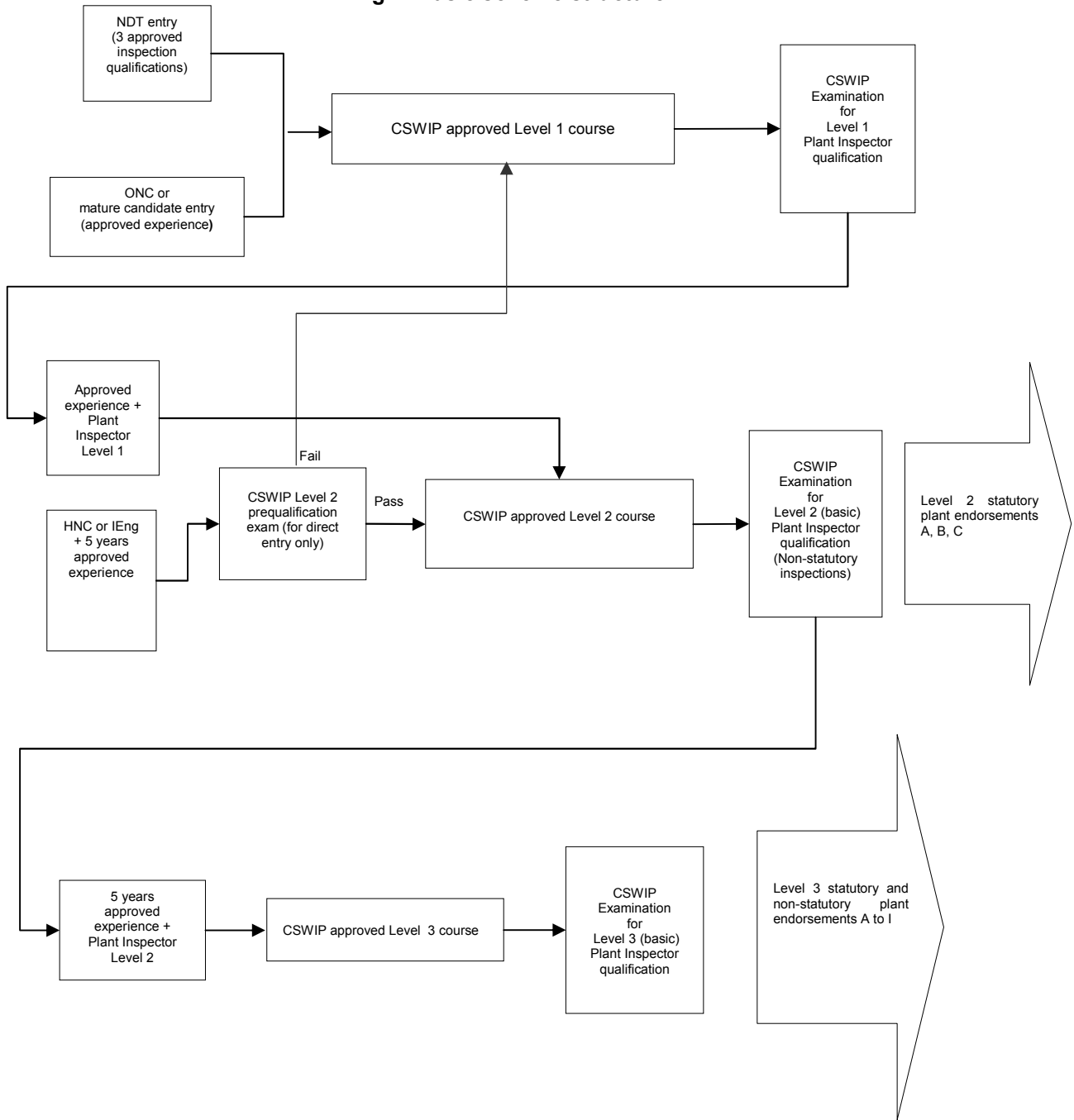
It is recognised that personnel considering this scheme will come from the main disciplines of plant operation, non-destructive testing and mechanical inspection. It is also likely to draw candidates who are suitably experienced and qualified with related quality assurance and quality control backgrounds.

The scheme is designed to suit plant inspectors working for commercial works (vendor) inspection organisations, independent third party inspection organisations, classification societies and insurance companies. Special consideration is given to the responsibility and competence requirements of inspectors working in a statutory 'Competent Person' role under the PSSRs or LOLER, or as a 'user inspectorate' in power, petrochemical or offshore plant.

Fig 2 below sets out the basic scheme structure for the CSWIP Plant Inspection Scheme. Note the following points:

- A mature candidate route is available at level 1 only.
- Level 2 is preceded by stringent experience assessment and candidates must also successfully complete the Level 1 examination (for direct entry only).
- Level 3 is preceded by stringent experience assessment .
- Certification for statutory inspections cannot be achieved until Level 2 plus endorsements have been achieved.

Fig 2: Basic scheme structure



2 SCOPE

For Levels 1, 2 and 3, and endorsements, certification comprises theory and case study examinations appropriate to the level. Candidates will only pass if they demonstrate the necessary combination of theoretical, practical ability and experience required by plant inspectors.

Examinations are conducted only by TWI Certification Ltd Authorised Examining Bodies. The present requirements are intended to meet the majority of users' needs for the practical inspection of engineering plant and to provide industry with an assured minimum standard of proficiency.

Examinations are designed to test the candidate's grasp of the wide subject matter of plant inspection and his/her understanding of the technical and procedural aspects of the plant inspectors' role. The examination procedure involves a combination of written, multiple choice descriptive and case study questions (at all levels; 1, 2, 3 and endorsements).

Entry to level 2, level 3, and appropriate endorsements, is via prequalification examinations, see Section 3.

2.1 Level 1 Personnel

An inspector certified to Plant Inspector Level 1 has a wide-ranging basic knowledge of technical issues relating to works (vendor) and in-service inspection of mechanical plant. The inspector will be able to perform straightforward unsupervised inspections in accordance with an inspection and test plan (ITP) for new equipment or a written scheme of examination (WSE) for in-service equipment which is not subject to statutory requirements (PED, PSSRs, LOLER etc.). The inspector will be able to choose the inspection method, liaise with technicians performing the test, and provide clear reports, with recommendations, for final assessment by others. The inspector will be capable of making basic subjective judgements on non-controversial inspection results but will require assistance when dealing with more technically complex situations.

2.2 Level 2 Personnel

An inspector certified to Plant Inspector Level 2 (basic) is able to carry out all duties for which a level 1 inspector is qualified but is able to add a deeper level of technical understanding and interpretation. The inspector also has a wider scope of knowledge relating to pressure and lifting equipment and their manufacturing and test procedure. A Level 2 inspector can make more detailed comparison of inspection results with code/defect acceptance criteria and justify conclusions using simple code calculations. In cases where corrosion and other in-service defects are found, the inspector is able to allocate severity levels and contribute input to a risk-based-inspection (RBI) scheme, if applicable.

An inspector certified to Plant Inspector level 2A/B/C (i.e. with additional endorsements 2A, 2B, and 2C) is able to perform all duties for which a level 2 (basic) inspector is qualified and, in addition:

Is able to perform various inspection-related duties as part of an organisation acting as 'Competent Person' under the provision of relevant legislation such as the PSSRs and LOLER (Endorsement 2C). In the case of the PSSRs, the inspector's role is limited to the category of pressure system for which the endorsement is held i.e.

Endorsement 2A: Minor systems (PSSRs ACoP 105a)
Endorsement 2B: Intermediate systems (PSSRs ACoP 105b)

2.3 Level 3 Personnel

An inspector certified to Plant Inspector Level 3 (basic) would be capable of assuming full responsibility as 'technical authority' for an inspection operation and staff; establishing techniques and procedures; interpreting codes, standards, specifications and procedures; and designating the particular test methods, techniques and procedures to be used. The inspector shall be deemed to have the competence to interpret and evaluate results in accordance with existing codes, standards and specifications and have sufficient practical technical background to select methods and establish techniques and to assist in establishing

acceptance criteria where none are otherwise available. The inspector will also be able to assume responsibility for a 'user inspector' operation and demonstrate a clear and justified view of the subject of risk.

An inspector certified to plant inspector 3A/B/C/D/E/F/G/H/I (i.e. with additional endorsements) is able to perform all duties for which a level 3 (basic) inspector is qualified and, in addition perform the duties related to the specific endorsements held i.e.

| | |
|-----------------|----------------------------------------------------|
| Endorsement 3A: | Inspection of 'major systems' (PSSRs ACoP 105c). |
| Endorsement 3B: | Inspection of rotating equipment. |
| Endorsement 3C: | Statutory inspection of lifting equipment (LOLER). |
| Endorsement 3D: | Inspection of pressure vessels: API 510. |
| Endorsement 3E: | Inspection of storage tanks: API 653/EEMUA 159. |
| Endorsement 3F: | Inspection of offshore installations. |
| Endorsement 3G: | Advanced painting and linings inspection. |
| Endorsement 3H: | Failure investigation and the expert witness role. |
| Endorsement 3I: | RBI management. |

An inspector who has passed endorsement 3A is able to perform various inspection-related duties as part of an organisation acting as 'Competent Person' under the PSSRs dealing with 'major systems' (PSSRs ACoP 105c). In addition the inspector is able to draw up and/or certify written schemes of examination for minor, intermediate and major systems.

3 ELIGIBILITY FOR COURSE AND EXAMINATION

Candidates shall have a combination of education, training and documented experience adequate to ensure that they have the potential to understand the technical and procedural issues of the applicable level.

3.1 Level 1 award requirements

The minimum requirements for award of a Level 1 qualification are as follows:

- 3.1.1 Holds current approved NDT Level 2 (ACCP, CSWIP or PCN) in three methods (BGAS Painting Inspector and CSWIP 3.1 Welding Inspection qualifications are acceptable as methods) **OR** holds CSWIP 3.2 Senior Welding Inspector **OR** holds an ONC in Mechanical Engineering or equivalent **OR** has satisfactory pre-assessed work experience in plant inspection (mature candidate entry, see Section 3.6); **plus**
- 3.1.2 Successfully completes an approved Plant Inspector Level 1 training course and the CSWIP examinations.

3.2 Level 2 (basic) award requirements

The minimum requirements for award of a Level 2 (basic) qualification are as follows:

- 3.2.1 Satisfactory pre-assessed work experience in plant inspection; **plus**
- 3.2.2 Holds current valid CSWIP Plant Inspector Level 1 qualification; **plus**
- 3.2.3 Successfully completes an approved Plant Inspector Level 2 (basic) training course and the CSWIP examinations.

OR

- 3.2.4 Satisfactory pre-assessed work experience in plant inspection (and successfully complete the Level 1 as an entry examination*) **plus**

* The entry examination for the Level 2 will be conducted at a CSWIP approved test centre.

- 3.2.5 Qualified to HNC in Mechanical Engineering or equivalent qualification or to be an Incorporated Engineer; **plus**
- 3.2.6 Successfully completes an approved the Plant Inspector Level 2 (basic) training course and the CSWIP examinations.

3.3 Level 2 (endorsement) awards 2A, 2B, and 2C

- 3.3.1 Holds current CSWIP Plant Inspector Level 2 (basic) qualification **plus**
- 3.3.2 Successfully completes the relevant approved Level 2 endorsement training course and the CSWIP examinations.

3.4 Level 3 (basic) award requirements

The minimum requirements for award of a Level 3 qualification are as follows:

- 3.4.1 Five years minimum satisfactory pre-assessed (Level 3 CSWIP logbook) work experience in plant inspection; **plus**
- 3.4.2 Holds a current valid CSWIP Plant Inspector Level 2 (basic) qualification; **plus**
- 3.4.3 Successfully completes an approved Plant Inspector Level 3 (basic) training course and the CSWIP examinations.

3.5 Level 3 endorsement awards 3A to 3I

- 3.5.1 Holds current CSWIP Level 3 (basic) qualification plus, for endorsement 3A:(PSSRs major pressure systems), holds Level 2 endorsements 2A and 2B (minor and intermediate pressure systems) plus
- 3.5.2 Successfully completes the relevant approved Level 3 endorsement training course and the CSWIP examinations.

3.6 Mature candidate entry – Level 1 only

To be eligible for the training course and examination the candidate shall have a minimum assessed level of experience of five years (assessed by employer authentication and CV) for the appropriate level of examination being sought.

In all cases of pre-assessment of authenticated experience, irrespective of entry route, the outcome may require candidates to undertake appropriate short courses to address significant shortfalls in knowledge and experience.

3.7 Vision requirements

The candidate shall provide documented evidence of satisfactory vision in accordance with the following requirements:

- a) Near vision shall permit reading a minimum of Jaeger number 1 or equivalent type and size letters (e.g. Times Roman N4), at not less than 30 cm on a standard Jaeger test chart for near vision, in at least one eye, corrected or uncorrected;
- b) Colour vision should be sufficient that the candidate can distinguish and differentiate contrast between the colours used in the inspection methods at the level of familiarity required in the certification being sought.

The evidence must be in the form of a certificate issued by a medically recognised person within the previous 24 months, covering all of the above points.

With all of the above eligibility requirements the onus is on the candidate to provide the necessary evidence prior to the examination. An examination appointment will not be confirmed until the evidence has been received. Subsequent to certification, tests of visual acuity shall be carried out annually.

3.8 Training

All candidates must attend a CSWIP approved course of training at the appropriate Level prior to examination. Details of such courses are available on request.

4 Application for Examination and Fees

Candidates will be required to submit an application form and CV. . All information requested must be on these forms. No applications can be considered confirmed until receipt of correctly completed documents. Application forms ask for specific details of experience and training and must be signed to the effect that these details are correct.

In the event of a false statement being discovered on any submitted document, any examination undertaken will be declared null and void. A certificate is automatically invalidated if there are any outstanding examination fees in respect of that certificate.

Candidates who are found cheating during an examination will automatically be banned for a minimum of five years from taking any CSWIP examination.

Examinations may be taken at Test Centres approved in the United Kingdom and overseas for the CSWIP Plant Inspector certification scheme. Lists of approved examination centres are available on request.

5 EXAMINATION CONTENT

The examinations comprise multiple-choice and narrative questions. The time allowed for narrative answer questions is specified in the examination paper presented to the candidate. All examination components have a pass mark of 70%.

5.1 Levels 1, 2, and 3 (basic)

There are two batches of examinations for each Level. Each batch consists of:

- a) Paper 1 is of 75 minutes duration and comprises 50 multiple choice questions.
- b) Paper 2 is of 2 hours duration and comprises four essay-type questions from a choice of 12; candidates are required to answer one question out of three from each of four mandatory sections.
- c) Paper 3 is a written paper of 1½ hours duration and comprises an extended case study using a combination of documentation extracts, photographs and real-life plant inspection situations. This paper tests the technical knowledge and decision-making skills of candidates in a realistic scenario.

5.2 Levels 2 and 3 (endorsements)

There is one batch of examinations for each endorsement.

- a) Paper 1 is of 40 minutes duration and comprises 25 multiple-choice questions.
- b) Paper 2 is of 1 hour duration and comprises two mandatory essay-type questions. There is no choice for each of questions.
- c) Paper 3 is a written paper of 30 minutes duration and comprises a case study. This tests the technical knowledge and decision-making skills of candidates in a realistic scenario.

6 Certification

6.1 Results Notices

All candidates shall be sent a results notice. This notice shall also be sent to the organisation paying the examination fee, if not paid by the candidate.

6.2 Successful Candidates

Two copies of a certificate will be issued to the sponsoring organisation or person. Duplicate certificates to replace those lost or damaged will only be issued after extensive enquiries.

6.3 Unsuccessful Candidates

Candidates who fail to obtain a certificate on any module paper may take one retest on those parts of the examination in which success was not achieved. The retest must be completed within one year of the initial test; otherwise candidates will have to repeat the complete examination.

Candidates who are unsuccessful in the retest will be required to re-take the full approved course followed by the full examination.

6.4 Period of validity

The certificate is valid for five years from the date of completion of the initial test and may be renewed for a further five years on application, provided evidence is produced in accordance with Clause 6.5.1. Certificates are only valid provided they are:

- a) Within date
- b) On standard cream CSWIP paper bearing the CSWIP logo in black on gold signed by an officer of CSWIP and embossed with the CSWIP stamp
- c) Signed by the inspector to whom the certificate is awarded
- d) Accompanied by a valid official CSWIP identity card.

Success in endorsement examination(s) does not affect the period of validity of the certificate.

Photocopies are unauthorised by CSWIP and should only be used for internal administrative purposes.

6.5 Renewal

6.5.1 Five year renewal

In all cases, the inspector applying for renewal must:

- a) Provide evidence, at least every second year, of satisfactory vision examination
- b) Provide evidence of continuous satisfactory work activity without significant interruption during the previous five years.

A significant interruption means an absence or a change of activity that prevents the certified individual from practising the duties corresponding to their level of qualified CSWIP Plant Inspector, for one or several periods for a total time exceeding one year.

If the certificate contains one or more endorsements, the endorsements can not be renewed unless the candidate firstly satisfies the renewal criteria for the basic certificate. If the basic certificate is renewed, in order to renew the endorsement(s) the holder must provide evidence in his/her log book of satisfactory work experience specific to the endorsement(s). If such evidence is not available, a written endorsement-specific examination will be required in order to renew the

endorsement. The examination will consist of a multi-choice paper related to the endorsement syllabus and any relevant document revisions that have occurred since the previous examination.

Official CSWIP log books must be used for this purpose.

Any previous certificate is invalidated upon issue of the five-year renewal certificate.

The certificate will not be renewed without further test if an authenticated complaint is received by the Governing Board during the period of its validity. Further instruction and retest may then be required.

Renewal must take place not later than 21 days after the date of expiry. It is the certificate holder's responsibility to ensure that renewal takes place at the appropriate time. Only under extreme circumstances will certificates be renewed up to a maximum of six calendar months from the date of expiry shown on the certificate and late renewal will be subject to a special fee.

6.5.2 Ten year renewal procedure

Certificates are renewed beyond ten years from the initial examination (or from a previous ten year renewal) by the holder successfully completing a renewal examination prior to the expiry of the certificate in addition to the renewal procedure given in Clause 6.5.1. Requests for the appropriate documentation should be made to TWI Certification Ltd at Granta Park, Great Abington, Cambridge only.

The ten year renewal examination consists of a multi-choice paper related to the initial examination syllabus and any endorsements held.

One retest within six months of the 10 year renewal examination will be allowed.

Failure at the retest point will mean that the candidate must take the full course and full initial examination again to regain the qualification.

6.6 Complaints and Appeals

An aggrieved party in a dispute which considers itself to have reasonable grounds for questioning the competency of a CSWIP qualified person may petition the Governing Board for non-renewal of the certificate. Such a petition must be accompanied by all relevant facts and, if in the opinion of the Board an adequate case has been presented, a full investigation of the circumstances under dispute will be initiated. If the petition is substantiated to the satisfaction of the Board, the certificate will be withdrawn.

7 Records

TWI Certification Ltd maintains records of successful and unsuccessful candidates. These records are accessible to the Governing Board or its nominees at all reasonable times.

ADDRESSES

For further general information contact:

TWI Certification Ltd
Granta Park
Great Abington
Cambridge CB21 6AL, UK

Phone: +44 (0) 1223 899000
Fax: +44 (0) 1223 894219
Email: twicertification@twi.co.uk

For specific information on training and examinations and tests and arranging for them to be carried out, contact the approved Examination Body:

TWI Training and Examinations
Granta Park
Great Abington
Cambridge CB21 6AL, UK

Phone: +44 (0) 1223 899000
Fax: +44 (0) 1223 891630
Email: trainexam@twi.co.uk

GLOSSARY

| | |
|-------|-------------------------------------------------------|
| WSE | Written Scheme of Examination |
| PED | Pressure Equipment Directive |
| PSSR | Pressure Systems Safety Regulations |
| LOLER | Lifting Operations and Lifting Equipment Regulations |
| ACOP | Approval Code of Practice |
| API | American Petroleum Institute |
| EEMUA | Engineering Equipment and Materials Users Association |
| RBI | Risk Based Inspection |

CERTIFICATION SCHEME FOR PERSONNEL

Requirements for the Certification of Plant Inspectors

APPENDIX TO DOCUMENT CSWIP-11-01 3rd Edition February 2009

Appendix 1: Outline Training Syllabus

| CERTIFICATION | MODULES | EXAMINATIONS |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Plant Inspector Level 1 | <ul style="list-style-type: none"> • The plant inspector: roles and duties (1) • QA/inspection in context • Inspection safety • Inspection: background skills • Legislation, rules and regulations • Inspection and test plans (ITPs) • Inspecting materials • Visual examination skills • Visual examination of welds • Inspection and basic NDT • Introduction to corrosion | <p>Level 1, first batch</p> <ul style="list-style-type: none"> • Paper 1 – multiple-choice (all modules) 50 questions, 75 minutes • Paper 2 – narrative (all modules) 4 questions from 12, 120 minutes • Paper 3 – case study, 90 minutes |
| Level 1 continued | <ul style="list-style-type: none"> • The plant inspector: roles and duties (2) • Using codes and standards • Introduction to pressure equipment • Inspection of pressure vessels • Inspection of pipework systems (API 570 introduction) • Inspection of storage tanks (API 653 introduction) • Inspecting painting/rubber/GRP linings • An introduction to RBI • Inspection reporting | <p>Level 1, second batch</p> <ul style="list-style-type: none"> • Paper 1 – multiple-choice (all modules) 50 questions, 75 minutes • Paper 2 – narrative (all modules) 4 questions from 12, 120 minutes • Paper 3 – case study, 90 minutes |
| Level 2 Plant Inspector (basic) | <ul style="list-style-type: none"> • Safety briefing: Pressure tests • Inspection of cranes (works inspection) • Inspection of cranes (site inspection/introduction to LOLER) • Plant inspector competency/skills assessment • Inspecting pressure relief valves (PRVs) • API 510 pressure vessel inspection code • API 510 assessment exercise • Pressure Equipment Directive; introduction | <p>Level 2 (basic), first batch</p> <ul style="list-style-type: none"> • Paper 1 – multiple-choice (all modules) 50 questions, 75 minutes • Paper 2 – narrative (all modules) 4 questions from 12, 120 minutes • Paper 3 - case study, 90 minutes |

| CERTIFICATION | MODULES | EXAMINATIONS |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Level 2 continued | <ul style="list-style-type: none"> • L2W2 entry questionnaire • Plant inspector and ISO 9001:2000/ ISO 17020 • Case study: HSE investigation • On-site calculations • Pressure testing • Inspecting heat exchangers • High temperature/boiler corrosion | Level 2 (basic), second batch <ul style="list-style-type: none"> • Paper 1 - multiple-choice (all modules) 50 questions, 75 minutes • Paper 2 - narrative (all modules) 4 questions from 12, 120 minutes • Paper 3 - case study, 90 minutes |
| Level 2 Endorsement 2A | <ul style="list-style-type: none"> • Statutory PSSRs inspection of 'minor systems' (ACoP 105a) | <ul style="list-style-type: none"> • Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes • Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes • Paper 3 - case study, 1 question, 30 minutes |
| Level 2 Endorsement 2B | <ul style="list-style-type: none"> • Statutory PSSRs inspection of 'intermediate systems' (ACoP 105b) | <ul style="list-style-type: none"> • Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes • Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes • Paper 3 - case study, 1 question, 30 minutes |
| Level 2 Endorsement 2C | <ul style="list-style-type: none"> • Statutory (LOLER) inspection of lifting equipment | <ul style="list-style-type: none"> • Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes • Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes • Paper 3 - case study, 1 question, 30 minutes |
| Level 3 Plant Inspector (basic) | <ul style="list-style-type: none"> • Role of the plant inspector (3):Investigations, disputes and claims • Plant remnant life assessment • Fitness-for-purpose assessments (1) • Advanced corrosion and criticality reporting | Level 3 (basic), first batch <ul style="list-style-type: none"> • Paper 1 - multiple-choice (all modules) 50 questions, 75 minutes • Paper 2 - narrative (all modules) 4 questions from 12, 120 minutes • Paper 3 - case study, 90 minutes |
| Level 3 continued | <ul style="list-style-type: none"> • Fitness-for-purpose assessments (2) (BS 7910/API 579) • RBI implementation • Advanced inspection reporting • Inspection economics and management | Level 3 (basic), second batch <ul style="list-style-type: none"> • Paper 1 - multiple-choice (all modules) 50 questions, 75 minutes • Paper 2 - narrative (all modules) 4 questions from 12, 120 minutes • Paper 3 - case study, 90 minutes |

| CERTIFICATION | MODULES | EXAMINATIONS |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Level 3 Endorsement 3A | <ul style="list-style-type: none"> Statutory PSSRs inspection of 'major systems' and steam plant (ACoP 105c) | <ul style="list-style-type: none"> Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes Paper 3 - case study, 1 question, 30 minutes |
| Level 3 Endorsement 3B | <ul style="list-style-type: none"> Inspection of rotating equipment | <ul style="list-style-type: none"> Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes Paper 3 - case study, 1 question, 30 minutes |
| Level 3 Endorsement 3C | <ul style="list-style-type: none"> Statutory (LOLER) inspection of lifting equipment | <ul style="list-style-type: none"> Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes Paper 3 - case study, 1 question, 30 minutes |
| Level 3 Endorsement 3D | <ul style="list-style-type: none"> Inspection of pressure vessels: API 510 | <ul style="list-style-type: none"> Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes Paper 3 - case study, 1 question, 30 minutes |
| Level 3 Endorsement 3E | <ul style="list-style-type: none"> Inspection of storage tanks :API 653/EEMUA 159 | <ul style="list-style-type: none"> Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes Paper 3 - case study, 1 question, 30 minutes |
| Level 3 Endorsement 3F | <ul style="list-style-type: none"> Inspection of offshore installations | <ul style="list-style-type: none"> Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes Paper 3 - case study, 1 question, 30 minutes |
| Level 3 Endorsement 3G | <ul style="list-style-type: none"> Advanced painting/linings inspection | <ul style="list-style-type: none"> Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes Paper 3 - case study, 1 question, 30 minutes |

| CERTIFICATION | MODULES | EXAMINATIONS |
|-------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Level 3 Endorsement 3H | <ul style="list-style-type: none"> • Failure investigation and the expert witness role | <ul style="list-style-type: none"> • Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes • Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes • Paper 3 - case study, 1 question, 30 minutes |
| Level 3 Endorsement 3I | <ul style="list-style-type: none"> • RBI management | <ul style="list-style-type: none"> • Paper 1 - multiple-choice (all modules) 25 questions, 40 minutes • Paper 2 - narrative (all modules) 2 questions from 2, 60 minutes • Paper 3 - case study, 1 question, 30 minutes |