



CERTIFICATION SCHEME FOR PERSONNEL

DOCUMENT No. CSWIP-ISO-NDT-11/93-R

Requirements for the Certification of Personnel Engaged in Non-Destructive Testing in accordance with the requirements of ISO 9712

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Issued under the authority of the Governing Board for Certification
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CSWIP is administered by TWI Certification Ltd
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Accreditation Certificate No 0025

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, Welding Examiners, Welding Quality Control Coordinators, Heat Treatment Operatives, Cathodic Inspection personnel, Drillstem Inspection personnel, Plant Inspectors, Underwater Inspection personnel, plastics welders 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 specific parts of the scheme. All CSWIP Boards and Committees comprise member representatives of relevant industrial and other interests. TWI Certification Ltd is accredited by UKAS to ISO/IEC 17024 (latest revision).

TWI Certification Ltd (TWI Cert) understands the importance of impartiality in carrying out its certification activities, managing conflict of interest and ensuring the objectivity of all its certification activities, in accordance with ISO/IEC 17024 (latest revision).

N.B. Mentions of codes and standards throughout this document refer to the latest revision, unless otherwise specified.

ACCESS TO CERTIFICATION

Access to certification is not improperly restricted. The sole criteria for certification are given in this 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 groups or associations.

1 General

This document prescribes procedures by which personnel may be examined and, if successful, certificated for ultrasonic testing (including automated testing), magnetic testing, liquid penetrant testing, visual and optical testing, radiographic testing, and/or radiographic interpretation, as applied to welded joints and/or castings and wrought components (including forgings).

The requirements for examination eligibility, examination format, and the rules governing certificate validity and renewal are, as a minimum, in compliance with ISO 9712.

The competence assessment and assurance provided within this scheme document are designed to satisfy the guidance expressed in RG 0 “Guidelines on the competence of personnel undertaking engineering inspections”. Product sectors and industrial sectors are named, where applicable, in the CSWIP Inspector certification titles, roles and responsibilities.

Job-specific training, as defined in ISO 9712 clause 3.20, may be provided within the requirements of Document CSWIP ES-NDT-12-04.

2 Scope

Certification comprises three parts:

- i) General (theory and practical common to all applications of a particular method of NDT)
- ii) Sector-specific (theory and practical for the method related to a specific application – in the present case this is welds made by conventional fusion welding processes, castings, and or wrought products including forgings).
- iii) Job-specific (examination related to the special needs of an individual employer – the examination is conducted by or on behalf of the employer).

General and sector-specific examinations are conducted by, or under the control of, an Examining Body authorised by TWI Certification Ltd.

The present requirements are intended to meet the majority of users' needs for the practical non-destructive testing of welds, castings, and wrought products (including forgings) and to provide industry with an assured minimum standard of proficiency. The majority of users of independent certification find the general and sector-specific examinations sufficient for their needs and do not require job-specific examinations. The specialist user may add job-specific examinations related to their own particular needs.

Level 1, 2 and 3 personnel are covered by these requirements.

2.1 NDT Level 1 personnel

An individual certified to Level 1 has demonstrated competence to carry out NDT operations in the method and sector described and in accordance with written instructions under the supervision of Level 2 or 3 personnel. The individual has, under assessment, demonstrated the ability to set up the equipment, carry out the tests, record the results obtained, classify the results in accordance with written criteria, and report the results. The responsibilities of a Level 1 do not include choice of the test method or technique to be used and the assessment of test results.

2.2 NDT Level 2 personnel

An individual certified to NDT Level 2 has demonstrated competence to perform and direct non-destructive testing in accordance with established or recognised techniques in the method and sector described. The individual has, under assessment, demonstrated the ability to choose the test techniques to be used; to set up and verify equipment; to interpret and evaluate results in accordance with applicable codes, standards and specifications; to carry out all duties for which a Level 1 individual is certified and to check that they are properly executed; and to translate NDT codes, standards, specifications and procedures into NDT instructions; and organise and report the results of non-destructive tests. The individual has also demonstrated the ability to be familiar with the scope and limitations of the method for which they are certified, and be able to exercise assigned responsibility for on-the-job training and guidance and mentoring of trainees and NDT Level 1 personnel.

2.3 NDT Level 3 personnel

An individual certified to NDT Level 3 has demonstrated the capability of establishing techniques and procedures; interpreting codes, standards, specifications and procedures; and

designating the particular test methods, techniques, and procedures to be used. To develop NDT procedures adapted to problems that are the subject of an NDT specification. The individual has, under assessment, demonstrated the ability to interpret and evaluate results in accordance with existing codes, standards and specifications, and have sufficient practical background in applicable materials, fabrication and product technology to select methods and establish techniques, and to assist in establishing acceptance criteria where none are otherwise available. The individual has also demonstrated under assessment general familiarity with other NDT methods, and has the ability to train and mentor Level 1 and Level 2 personnel.

3 Certification Available

Examination can be of four types: initial examinations (new candidates), supplementary examinations (certificate holders wishing to improve their existing certificates) retests (repeat of failed parts of examinations) and ten year renewal examinations.

Details of the examination format and syllabus can be found in the relevant part of Appendix 1.

Appendices		Levels Available
PART 1a:	Ultrasonic Inspector (Conventional) Inspectors	Levels 1, 2 and 3
PART 1b:	Automated Ultrasonic Girth Weld Inspection and Phased Array Ultrasonic Testing Inspectors	Levels 1, 2 and 3
PART 1c:	Time of Flight Diffraction Ultrasonic Inspector (TOFD) of Welds in Ferritic and Non-Ferritic Materials Inspectors.	Levels 1, 2 and 3
PART 2:	Magnetic Particle Inspector Inspectors	Levels 1, 2 and 3
PART 3:	Liquid Penetrant Inspector	Levels 1, 2 and 3
PART 4a:	Radiographic Interpreter	Level 2
PART 4b:	Radiographic Interpreter	Level 2
PART 5a:	Radiographic Inspector	Levels 1, 2 and 3
PART 5b:	Computed Radiographic Inspector/Interpreter	Levels 1, 2 and 3
PART 5c:	Radiographic Inspector Levels	Levels 1, 2 and 3
PART 6:	Visual and Optical Inspector	Levels 1, 2 and 3
PART 7:	ACFM Inspector	Levels 1, 2 and 3
PART 8:	Eddy Current Inspector	Levels 1, 2 and 3
PART 10:	Leak Detection Inspector	Levels 1, 2 and 3
PART 11:	Guided Wave Testing (GWT) Inspector of Pipes and Pipelines	Levels 1, 2 and 3

4 Eligibility for Examination

Candidates shall have a combination of education, training, and experience adequate to ensure that they have the potential to understand the principles and procedures of the applicable NDT method.

4.1 Training

To be eligible for certification in any NDT method, the candidate shall provide evidence of successful completion of a training programme approved by TWI Certification Ltd in that method. As a guide the minimum, training days required are:

NDT Method	Training Days		
	Level 1	Level 2	Level 3*
ACFM (ET)	5	6	6
Automated Ultrasonic Data Interpreter (AUTDI)	-	5	-
Automated Ultrasonic Inspector (AUT)	5	-	5
Computed radiographic interpretation (CRI)	-	8	-
Computed radiographic testing (CRT)	5	10	5
Eddy Current testing (ET)	5	6	6
Guided Wave Testing (GWT)	10	5	5
Leak Testing (LT)	5	9	6
Liquid penetrant testing (PT)	3	2	3
Magnetic testing (MT)	3	2	4
Phased Array Ultrasonic Inspector (PAUT)	5	5	5
Radiographic interpretation (RI)	-	8	-
Radiographic testing (RT)	5	10	5
TOFD Data Analysis	-	10	-
TOFD Ultrasonic Testing	5	5	5
Ultrasonic Corrosion & Erosion Monitoring Endorsement (UCM)	-	5	-
Ultrasonic Inspector (conventional) (UT)	8	10	5
Ultrasonic Thickness Testing Measurement (UTTM)	5	10	-
Visual and optical testing (VT)	3	2	3

* For Level 3 candidates who hold current ISO 9712 Level 2 in a given method, the training duration may be reduced by up to 50%.

Notes:

- 1 On-the-job training can account for one-third of the total training days. One day duration is at least seven hours, which can be achieved on a single day or by accumulating hours.
- 2 Direct access to Level 2 requires the total days for Level 1 and Level 2 (except Ultrasonic Thickness Testing Measurement).
- 3 Direct access to Level 3 requires the total days for Level 1, Level 2 and Level 3.
- 4 The Phased Array Corrosion and Erosion Monitoring Endorsement is only available to holders of the Phased Array Ultrasonic Inspection Level 2.
- 5 The Ultrasonic Corrosion and Erosion Monitoring Endorsement is only available to holders of conventional Ultrasonic Inspection Level 2.
- 6 The Eddy Current Array Endorsement is only available to holders of conventional Eddy Current Inspection Level 2.
- 7 For candidates who hold a Level 1 Phased Array Ultrasonic Inspection, the training duration may be reduced by up to 50% for Phased Array Data Analysis.
- 8 Candidates who hold a Level 1 TOFD Inspection, the training duration may be reduced by up to 50% for the TOFD Data Analysis.
- 9 For Basic Radiation Safety and Radiation Safety please see separate scheme.

Candidates must provide evidence of training. A certificate of attendance and a copy of the training syllabus, both authenticated by a senior responsible person in the candidate's employing organisation or by a major client, will normally suffice.

Evidence of training must satisfy the requirements of ISO 9712 and any technique or sector specific requirements in this document.

4.2 Experience

4.2.1 Levels 1 and 2

To be eligible for certification, the candidate shall have the minimum experience indicated below in the method in which they are seeking certification:

NDT Method	Days of Experience	
	Level 1	Level 2*
ACFM (ET)	45	135
Automated Ultrasonic Data Interpreter (AUTDI)	-	45
Automated Ultrasonic Inspector (AUT)	45	135
Computed radiographic interpretation (CRI)	-	45
Computed radiographic testing (CRT)	15	45
Eddy Current Array	-	45
Eddy current testing (ET)	45	135
Guided Wave Testing (GWT)	-	90
Leak Testing (LT)	45	135
Liquid penetrant testing (PT)	15	45
Magnetic testing (MT)	15	45
Phased Array Corrosion Monitoring Endorsement (PACM)	-	45
Phased Array Ultrasonic Inspector (PAUT)	15	45
Radiographic interpretation (RI)	-	90
Radiographic testing (RT)	45	135
TOFD Data Analysis	-	45
TOFD Ultrasonic Testing	15	45
Ultrasonic Corrosion & Erosion Monitoring Endorsement (UCM)	-	45
Ultrasonic testing (conventional) (UT)	45	135
Ultrasonic Thickness Testing Measurement (UTTM)	20	80
Visual and optical testing (VT)	15	45

*Direct access to Level 2 requires the total days listed above for Level 1 and Level 2.

Industrial NDT experience may be acquired prior to or following success in the examination. In the event that a part of the experience is sought following successful examination, the results of the examination shall remain valid for a maximum of two years.

4.2.2 Level 3

Level 3 responsibilities require knowledge beyond the technical scope of any specific NDT method. This broad knowledge may be acquired through a variety of combinations of

education, training and experience. The table below details minimum experience related to formal education.

Level 3 Access	Experience (days)	
	AT, ET, LT, RT, TT, UT	MT, PT, ST, VT
By a certified Level 2 operator	450	240
By a certified Level 2 operator with higher education in the field of engineering or science	270	180
Direct access with higher education in the field of engineering or appropriate science	540	360

Notes: For Level 1, 2 and 3

- 1 Work experience in days is based on a day duration of a minimum of 7 hours and a maximum of 12 hours, which can take place on a single day, or by accumulation. Experience in days is calculated by dividing the total accumulated hours by 7.
- 2 If the individual is being qualified directly to Level 2, with no time at Level 1, the experience shall consist of the sum of the time required for Level 1 and Level 2.
- 3 A certified Level 1, 2 or 3 adding an additional method may be permitted a reduction of required experience of 25% for the additional method. Any candidate changing sector or adding another sector or technique for the same NDT method shall be required to gain additional experience of at least 25% of the required experience, and this shall never be less than 15 days in duration.
- 4 Candidates must provide evidence of experience by providing relevant information authenticated by a senior responsible person in the candidate's employing organisation or by a major client, or by a referee. A referee shall be either certified to Level 2 or 3 in any NDT method, or a non-certified person who has been approved by TWI Cert to be qualified to attest to the candidate's experience.
- 5 Where the scope of certification sought is limited in application or technique, experience duration may be reduced by up to 50% but shall not be less than 15 days.
- 6 Up to 50% of the required industrial experience may be gained through attendance at an approved intensive practical training course. One day's attendance at such a course may be equivalent to up to a maximum of five days' industrial experience.

4.3 Mature candidate route

A mature candidate route offering exemption from the formal training is available for candidates who are able to demonstrate having at least five years' recent experience in their chosen method, and can show documented evidence of having completed a course of training compliant with the relevant CSWIP syllabus. Training courses completed shall be approved by TWI Cert prior to the examination.

If a mature candidate is unsuccessful in obtaining certification it will be necessary to undertake an approved course followed by a full re-examination.

4.4 Vision requirements

Candidates and certificate holders shall maintain and provide documented evidence of satisfactory vision in accordance with the following requirements:

- a) Prior to certification, and annually thereafter, near visual acuity shall be such that: the candidate is capable of reading N4.5 Times Roman or Jaeger number 1 or equivalent

letters at a distance of not less than 30cm, either corrected or unaided, with one or both eyes on a standard reading test chart; or should be conducted in accordance with ISO 18490 (Non-destructive testing – Evaluation of visual acuity of NDT personnel), using the “tumbling E” chart.

- i. Subsequent to certification, tests of near vision acuity shall be carried out annually.
- b) Prior to certification, renewal and recertification, candidates and certificate holders are required to provide evidence that a colour vision eye test has been conducted within the previous five calendar years.
 - i. Colour vision shall be sufficient that the candidate can distinguish and differentiate between the colours and/or shades of grey used in the NDT methods concerned.
 - ii. All candidates and holders of CSWIP certification will be required to have their colour perception assessed by the Ishihara 24 plate test.
 - iii. In the event of colour perception deficiency, indicated by misreading any of the first 17 plates, the employer shall be notified, and a further ‘trade test’ shall be carried out by the employer to ascertain whether the detected colour perception deficiency affects the individual’s ability to perform the NDT method for which they are certified.
- c) The evidence must be in the form of a certificate covering all the above points issued by the person who administered the eye test. Near vision testing, colour vision and grey scale perception tests shall be administered by a medically recognised person, or a trained appointed representative of the medically recognised person as listed in ISO 9712 (e.g. an optometrist), or by another trained professional, acting on behalf of the employer, who is approved and documented by a holder of a Level 3 ISO 9712-compliant certification.
- d) With all the above eligibility requirements the onus is on the candidate to provide the necessary evidence prior to examination. An examination appointment will not be confirmed until the evidence has been received.
- e) It is the responsibility of the employer to ensure annual vision tests are carried out and maintained as per ISO 9712.

4.5 Failure to meet entry requirements

Personnel who satisfy most but not all of the other entry requirements and who may have alternative attributes which they consider should be taken into account may have their individual cases assessed by the appropriate CSWIP Management Committee. Such applications should be directed to TWI Cert in the first instance.

5 Application for Examination and Fees

When the eligibility for examination has been achieved, the next step is to take the examination.

Candidates will be required to submit an application form. All the 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 require commitment to the CSWIP Rules, and must be signed to the effect that these details are correct.

In the event of a false statement being discovered on forms, 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 proven to have cheated, or found to have attempted to remove or found to have removed examination material in a CSWIP examination will not be accepted as a candidate for any CSWIP examination for a minimum period of five years from the date of the examination where cheating, attempt to remove or removal of examination material was established to have taken place.

Examinations may be taken at any one of a number of Test Centres in the UK and overseas. Lists are available on request.

6 Examination Content

The examinations include a general and a specific examination for each level of competence. Each examination consists of a written part and a practical part.

The general and specific theory examination elements are mainly comprised of multiple-choice questions. The time allowed for examinations comprised of multiple-choice questions are detailed in the relevant Appendix.

The general and specific practical elements are of sufficient duration, complexity and scope to verify adequately the candidate's ability to apply the NDT method to real test situations.

6.1 Level 1 and 2 Examinations

6.1.1 General Theory Examination Element

In the general theory examination element, the candidate shall demonstrate proficiency in performing the relevant NDT method. The candidate is required to give answers to a minimum of 40 multiple-choice questions.

The time allowed for the general examination element shall be based on two minutes per multiple-choice question.

Note: Candidates attempting certification at Level 2 in Automated Ultrasonic Testing (AUT), Automated Ultrasonic Data Interpreter (AUTDI), Phased Array Ultrasonic Testing (PAUT) and Time of Flight Diffraction (TOFD) Ultrasonic Testing who hold a valid Ultrasonic Level 2 ISO 9712 certification will be exempt from the General Theory Level 2 paper.

6.1.2 General Practical Examination Element

The practical test in the general examination is to verify the candidate's ability to make required settings operate and calibrate the test equipment properly in order to obtain satisfactory results and correctly interpret these results. The candidate is required therefore to demonstrate this ability, with comments, using the means available, as directed by the examiner, for each test method.

The time allowed for the general practical element is detailed in the relevant appendix.

6.1.3 Specific Theory Examination Element

In the specific theory examination element, the candidate shall demonstrate sufficient knowledge and understanding of the application of the relevant test method in the applicable industrial sector or product type. During the specific theory examination element, the candidate is required to give answers to a minimum of 20 multiple-choice questions.

If the specific examination covers two or more sectors, the minimum number of questions shall be 30, evenly spread between the sectors concerned.

The time allowed for the specific examination element shall be based on three minutes per multiple-choice question.

6.1.4 Specific Practical Examination Element

The practical test in the specific examination is to verify the candidate's ability to perform testing of prescribed components relating to the industrial sector concerned, to record and analyse the resultant information to the degree required, according to specific testing instructions or specifications and to the NDT level being sought.

The time allowed for the specific practical element is detailed in the relevant appendix.

6.1.5 NDT Instruction Writing Element

Level 2 candidates are required to demonstrate the ability to prepare written instructions for Level 1 personnel.

The time allowed for the NDT Instruction Writing element is detailed in the relevant appendix.

6.2 Level 3

The qualification examination for Level 3 consists only of a written examination covering a specified test method.

The examination covers:

- Basic knowledge relating to the test method applied for and to materials, processes and discontinuities; questions of a Level 2 standard relating to other NDT methods (MT, PT, RT, UT, ET (Eddy current inspection), VT, AE (Acoustic Emission), TIR (Thermal Infra-Red inspection); requirements for the certification of NDT personnel as outlined in ISO 9712(2) and SNT-TC-1A (6).
- Specific knowledge relating to the application of the NDT method in which the candidate is being examined including applicable codes, standards and specifications, plus knowledge of the product being tested.
- If the candidate is not qualified to Level 2 at the time of application, then they shall also successfully complete the practical examination in the relevant NDT method.

6.2.1 Basic examination

The basic examination includes only multiple choice questions and consists of three sections. The number of questions and the areas covered are as shown below.

Candidates successful in Section A, B and C of the basic examination will not be required to resit this section when attempting additional Level 3 examinations in other methods.

- A 25 questions on materials, processes and discontinuities.
- B 10 questions on the certification body's certification and qualification system.
- C 60 questions of a Level 2 standard relating to the general knowledge of at least four NDT methods chosen from those listed in 4.1 (15 questions per method). One of those methods chosen shall be a volumetric test method (UT or RT).

6.2.2 Main method examination

- D 30 questions of Level 3 knowledge relating to the test method concerned.
- E 20 questions relating to the application of the method in the sector concerned. This may be an open-book examination where questions relating to codes, standards, and specifications are involved.
- F The drafting of an NDT procedure for a component selected by the examiner. The use of applicable codes, standards and specifications by the candidate shall be allowed.

6.3 Grading

To be certified the candidate shall obtain a grade of at least 70% in each section of the examination.

6.4 Exemptions

Candidates sitting initial CSWIP examinations are not required to attempt an examination section in which they have already achieved success during the process of gaining a CSWIP or equivalent ISO 9712 certification.

TWI Cert will grant exemptions for the Level 3 Basic examination part A (materials processes and discontinuities) and part C (Level 2 knowledge of four NDT methods), and the Level 3 Main Method examination part D (Level 3 knowledge relating to the test method) for holders of centrally issued valid ASNT Level III certification.

7 Certification

7.1 Results notices

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

Results notices will indicate whether the candidate has achieved success or otherwise in the examination, the marks gained in each part of the examination, whether retests are allowable

and brief reasons for failure of any part of the examination. The personal details recorded shall be those provided by the candidate.

For renewal and/or recertification candidates any previous certificate is invalidated upon the issue of the results notice from their relevant examination.

7.2 Successful candidates

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

Candidates who successfully meet all requirements for renewal and/or recertification will be issued with a certificate, the expiry date of which will be five years from the date of expiration of the original certificate.

7.3 Unsuccessful candidates

7.3.1 Initial Candidates

Candidates who fail to pass the initial examination may attempt two retests of those parts of the examination in which success was not achieved. The retests must be completed within one year of the initial test; otherwise candidates will have to repeat the complete examination.

The retest (or complete re-examination) may not be taken within 30 days of the previous examination, unless further specific training is undertaken.

7.3.2 Renewal or Recertification Candidates

Candidates with a valid certificate at the point of their renewal or recertification who fail to successfully renew or recertify will have their certificates withdrawn until they have successfully passed the required examination.

Unsuccessful candidates will be allowed two further attempts at the failed examination part within twelve months.

Please note that applications via the structured credit route count as the first attempt in regards to retests. Only one submission of the structured credit application will be allowed. Candidates who are unsuccessful, or do not meet requirements, will be required to take the renewal examination (see clause 7.6.1).

Candidates who have attempted the structured credit route and who are unsuccessful in their attempt at the renewal examination will only be allowed one retest of the renewal examination.

In the event that the candidate fails all allowable retests, or otherwise fails to meet requirements for renewal as listed below, they will be required to sit the initial examination as detailed in clause 6.

7.3.3 Reinstating Certification

Candidates who have had their original certification withdrawn due to failure to renew or recertify can have their certification reinstated, if they complete further training and retake all main method examination items as required for initial certification.

The date of expiration of the reinstated certificate shall be no more than five years from the date of expiration of the original certificate.

7.4 Period of validity

The certificate is valid for five years from the date the certification decision is made by TWI Cert, and may be renewed for a further five years on application, provided evidence is produced in accordance with the relevant requirements within this scheme document. Certificates are only valid provided they:

- a) Are within date.
- b) Are 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) Have been signed by the individual to whom the certificate is awarded.
- d) Are accompanied by a valid official CSWIP identity card.
- e) Accompanied by a valid visual acuity test, in accordance with clause 4.4, issued within the previous twelve months.

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

7.5 General requirements

7.5.1 Documentary requirements

In all cases, the individual applying for renewal or recertification must provide evidence of:

- a) A current satisfactory vision examination (see clause 4.4), and demonstrable evidence of their annual compliance with vision requirements;
- b) Continued satisfactory and verifiable work activity without significant interruption
A significant interruption means an absence or a change of activity which prevents the certified individual from practising the duties corresponding to their level in the method and the industrial sector(s) for which they are certified, for one or several periods for a total time exceeding one year. If this criterion is not met, the candidate shall complete the practical examination elements required for recertification.
- c) Providing evidence that the holder has kept up to date with technical developments in industry (continuous professional development).
and either:
- d) Successfully complete a practical examination element;
Or,
- e) Successfully meet the requirements of the structured credit system as given below.

7.5.2 Application Dates

The renewal and/or recertification process (including application and examinations see below) can be initiated up to six months prior to the expiry of the certificate.

Applications for renewal and/or recertification MUST be received by TWI Cert no later than 21 days after the date of expiry of the certificate. It is the certificate holder's responsibility to ensure that renewal takes place at the appropriate time. Only in extreme circumstances will certificates be renewed post 21 days from the date of expiry shown on the certificate, and late renewal will be subject to a late fee.

Candidates whose certification has been expired for 12 months or longer will be required to complete the course and examination in accordance with the procedure for initial candidates.

If a candidate successfully submits their application before their current certificate expires, their new certificate renewal date be from the date of their old certificate's expiry date (i.e. no interruption in certification).

If a candidate fails to submit their renewal or recertification application before their current certificate expires, their new certificates effective date shall be the date on which their certification was granted. In this case, there shall have been an interruption in the certification period. The new certificate's expiry date will be no more than 5 years from the date of expiration of the original certificate.

7.5.3 Supplementary examinations

Certificated candidates who apply to be examined in additional groups of weld samples or sectors will be required to pass an additional specific theory examination in addition to the practical examination covering the extra group(s) of weld categories or sector (details in the relevant Appendix).

Supplementary examinations may not be attempted 30 days prior to the expiry of an existing certificate. It is not possible to combine renewal and/or recertification examinations with supplementary examinations for additional groups not included in the original certificate.

Success in a supplementary examination does not extend the life of the certificate to which it is added.

7.6 Five year renewal

Individuals whose certificates expire at the end of the five year period may renew their certificates for a further five years if they are able to supply evidence of reasonably continuous work activity in the relevant method during the period of validity of the certificate, and successfully complete a renewal examination or structured credit application.

For renewal of a CSWIP Radiographic Inspectors Level 1, 2 and 3 certification, candidates must hold a current recognised radiation safety qualification/certification.

7.6.1 By examination

The renewal examination shall consist of a minimum of 50% of the practical examination specimens required for recertification (see relevant Appendix for details).

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

7.6.2 By structured credit application

Candidates choosing to renew their certification by the structured credit route shall provide evidence to TWI Cert to demonstrate that they have gained a minimum of 100 points during the five-year validity of their certificate in accordance with the requirements of the relevant tables below.

Candidates applying to renew more than one certification must gain a minimum of 100 points for each certificate. Points from activities which are not related to a specific method (e.g. membership to an NDT society) may be applied to the total required points for each certificate.

To be eligible for renewal, candidates must gain a minimum number of points from activities listed in Part A of the relevant table, depending on the level of certification for which renewal is sought:

- For Level 1 certificates, a minimum of 75 of the 100 points is required from any combination of activities listed in Part A
- For Level 2 or 3 certificates, a minimum of 50 of the 100 points is required from any combination of activities listed in Part A

7.6.2.1 Level 1

Activity	Points granted per activity	Maximum number of points per year of activity	Maximum number of points over 5 years of activity
Part A			
Performance of NDT activities	2 / day	25	95
Completion of theoretical training in the method	1 / day	5	15
Completion of practical training in the method	2 / day	10	25
Participation in research activities in NDT field or for engineering of NDT	1 / week	15	60
Part B			
Participation in a technical seminar/paper in the field of the method or technique	1 / day	2	10
Presenting a technical seminar/paper in the field of the method or technique	1 / presentation	3	15
Current individual membership in NDT or NDT-related society	1 / membership	2	5
Note: the term 'year(s)' is specified as a certification year, not a calendar year.			

7.6.2.2 Level 2

Activity	Points granted per activity	Maximum number of points per year of activity	Maximum number of points over 5 years of activity
Part A			
Performance of NDT activities	2 / day	25	95
Completion of theoretical training in the method	1 / day	5	15
Completion of practical training in the method	2 / day	10	25
Delivery of practical or theoretical training in NDT in the method considered	1 / day	15	75
Participation in research activities in NDT field or for engineering of NDT	1 / week	15	60
Part B			
Participation in a technical seminar/paper in the field of the method or technique	1 / day	2	10
Presenting a technical seminar/paper in the field of the method or technique	1 / presentation	3	15
Current individual membership in NDT or NDT-related society	1 / membership	2	5
Technical oversight and mentoring of NDT personnel/trainee in the relevant method	2 / mentee	10	30
Participation or convenorship in standardisation and technical committees	1 / committee	3	15
Performing technical NDT role within a certification body	2 / activity	10	30
Note: the term 'year(s)' is specified as a certification year, not a calendar year.			

7.6.2.3 Level 3

Activity	Points granted per activity	Maximum number of points per year of activity	Maximum number of points over 5 years of activity
Part A			
Performance of NDT activities	2 / day	25	95
Completion of theoretical training in the method	1 / day	5	15
Completion of practical training in the method	2 / day	10	25
Delivery of practical or theoretical training in NDT in the method considered	1 / day	15	75
Participation in research activities in NDT field or for engineering of NDT	1 / week	15	60
Part B			
Participation in a technical seminar/paper in the field of the method or technique	1 / day	2	10
Presenting a technical seminar/paper in the field of the method or technique	1 / presentation	3	15
Current individual membership in NDT or NDT-related society	1 / membership	2	5
Technical oversight and mentoring of NDT personnel/trainee in the relevant method	2 / mentee	10	40

Participation or convenorship in standardisation and technical committees	1 / committee	4	20
Performing technical NDT role within a certification body	2 / activity	10	40
Note: the term 'year(s)' is specified as a certification year, not a calendar year.			

7.7 Ten year recertification

Candidates whose certificates expire at the end of the ten year period will be recertified provided they meet the following:

- a) A current satisfactory vision examination (see clause 4.4), and demonstrable evidence of their annual compliance with vision requirements;
- b) Continued satisfactory and verifiable work activity without significant interruption*;
- c) Providing evidence that the holder has kept up to date with technical developments in industry (continuous professional development).
- d) Meeting the requirements of 7.7.1, 7.7.2 or 7.7.3 as applicable.

For recertification of a CSWIP Radiographic Inspectors Level 1, 2 and 3 certification, candidates must hold a current recognised radiation safety qualification/certification.

7.7.1 Levels 1 and 2

Successfully complete a recertification examination consisting of a practical part of the initial examination. Further information on the examination can be obtained from the relevant part of Appendix 1.

7.7.2 Level 3

- a) Successfully complete an examination consisting of 20 multiple-choice questions on the method application in the industrial or product sector or sectors concerned, and 10 multiple-choice questions on the requirements of the scheme.
 - b) Successfully complete the relevant method Level 2 recertification practical examination.
Note: Candidates who hold valid Level 2 certification of the same scope shall be exempt from this part of the Level 3 recertification process.
- Or,
- c) As an alternative to Parts (a) and (b) in this clause (7.7.2) the candidate may gain recertification by meeting the requirements of a structured credit system as detailed below.

Candidates shall submit separate applications for each Level 3 certificate for which recertification is sought. Applications shall be made to TWI Cert in the first instance.

7.7.3 Level 3 recertification structured credit

Level 3 Candidates can apply for Structured Credit recertification. The process will be the same as renewal via the structured credit (7.6.2) with the following exceptions:

- a) A minimum of 50 and a maximum of 70 of the 100 points is required for any combination of activities listed in item A.
- b) A minimum of 30 and a maximum of 50 of the 100 points is required for any combination of activities listed in item B.

8 Complaints and appeals

An aggrieved party in a dispute which considers itself to have reasonable grounds for questioning the competency of a CSWIP-certified person may petition the Governing Board for invalidation 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.

Appeals against failure to certify or against invalidation of the certificate may be made by the holder upon application in writing to the Governing Board.

9 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.

10 References

1	ISO 17024	General criteria for certification bodies operating certification of personnel
2	ISO 9712	Non-destructive testing. Qualification and certification of personnel
3	http://www.hse.gov.uk/dst/ndt1.pdf	Best practice for the procurement and conduct of non-destructive testing, Part 1: Manual Ultrasonic Inspection
4	http://www.hse.gov.uk/dst/ndt2.pdf	Best practice for the procurement and conduct of non-destructive testing, Part 2; Magnetic Particle and Dye Penetrant Inspection
5	Recommended Practice	Guideline to Personnel Qualification and SNT-TC-1A, 2020 Certification in NDT
6	CSWIP-ES-NDT-12-04	Requirements for the Employer Specific Certification of Personnel Engaged in Non-Destructive Testing in accordance with the requirements of ISO 9712
7	UKAS RG 0	Guidelines on the Competence of Personnel Undertaking Engineering Inspections

11 Addresses

For further general information contact:

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

Phone: +44 (0) 1223 899000

Email: personnel@twicertification.com

Website: www.cswip.com

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

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

Phone: +44 (0) 1223 899000

Email: trainexam@twi.co.uk

Website: www.twitraining.com