



CERTIFICATION SCHEME FOR PERSONNEL

DOCUMENT NO. CSWIP-PER-2-01
(Formerly CSWIP-PED-2-01)

Requirements for the approval of NDT Personnel

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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
The use of the UKAS Accreditation Mark indicates accreditation in respect of those activities covered by
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 Quality Control Co-ordinators, Visual Offshore Inspectors, Plant Inspectors, Underwater Inspection Personnel and NDT personnel.

CSWIP is managed by the Certification Management Board, which acts as the Governing Board for TWI Certification Ltd (TWI CL), 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.

TWI CL 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.

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 CL, its parent, or any other group or associations.

1 GENERAL

1.1 Scope

This document prescribes the requirements for the approval of non-destructive testing (NDT) personnel for manufacturers seeking to comply with the UK Pressure Equipment (Safety) Regulations 2016, or with any other relevant standard or client specification which require such approval, such as the EU Pressure Equipment Directive (2014/68/EU).

Note: UK Pressure Equipment Regulation is in further text referred to as '**PESR**' and EU Pressure Equipment Directive is in further text referred to as '**PED**'

1.2 Responsibilities

TWI CL acts as the Certification Body. It carries overall responsibility for ensuring that the requirements for approval are satisfied and that appropriate approval documentation is issued following successful evaluation.

There are different routes to achieve approval. It is the manufacturer's responsibility to select a suitable route.

It is also the manufacturer's responsibility to ensure that the recognition and acceptance of approval documentation is appropriate to their requirements. Whilst TWI CL makes every effort to ensure that its approval documentation carries appropriate accreditation, and that evaluation and certification activities are carried out in accordance with best practice, it cannot guarantee acceptance by any particular customer or client.

In terms of compliance with the Pressure Equipment (Safety) Regulations, TWI CL is a Recognised Third Party Organisation (RTPO) for the approval of NDT personnel, and welding procedures and welders. It is not authorised or notified to assess or establish conformity with the whole of the Regulation.

Evaluation activities are subcontracted by TWI CL to one of its approved Examining Bodies. These Bodies will act as the interface between TWI CL and the manufacturer. TWI CL rigorously controls the procedures and functions of Examining Bodies in the conduct of their work on behalf of TWI Certification Ltd.

Evaluation of the manufacturer's system is arranged between the Examining Body and the manufacturer. The Examining Body is responsible for evaluation as required by the selected route and for informing TWI Certification Ltd of the results.

2 APPLICABILITY

The compliance with PESR (and PED) requirements is only applicable to personnel who hold certification in one or more methods, levels and sectors as listed in Table 1.

Table 1: List of methods, levels and sectors covered by the PESR and PED.

Methods				Level	Sector
PT	MT	ET	ACFM	Level 1	Welds
UT	AUT	TOFD	PAUT	Level 2	---
RT	RI	CR/DR	CRI/DRI	Level 3	---

Note: Where a certificate is issued in a combination of sectors, which contains the weld sector (e.g. general sector) the PESR/PED approval will apply to weld sector only. This effectively means that candidates with certification in multisector will have this reduced on the Certificate of Approval to 'welds' sector.

3 ACCESS ROUTES

3.1 Route A – CSWIP EN ISO 9712 Certification route

Route A is relevant to certification based on scheme document CSWIP-ISO-NDT-11-93-R and supporting appendices (see www.cswip.com for details).

Route A may also be used by individuals who hold certification issued by another Recognised Third Party Organisation (recognised in terms of PESR) who entered a mutual agreement with TWI CL, provided the certification is based on EN ISO 9712.

3.1.1 New certification candidates

All individuals who are seeking CSWIP NDT certification in accordance with EN ISO 9712 must comply with the requirements of the relevant CSWIP NDT Scheme documents.

The new candidates are required to submit to the Examining Body requested details and any relevant documentation needed to meet the requirements of the relevant CSWIP NDT Scheme.

The examination body will assess each individual's application in terms of industrial experience, medical fitness, and training and examination requirements. Individuals who meet all relevant access conditions will be recommended to TWI CL for certification.

TWI CL will then review the candidates documentation pack, ensure that the requirements have been met and that the correct procedures have been followed, and issue the appropriate certificate.

3.1.2 Current certificate holders

All individuals who hold a current CSWIP EN ISO 9712 certificate, as per the methods, levels or sectors listed in Table 1, automatically comply with PESR requirements (i.e. PESR compliance is automatically included).

Those seeking PED compliance, see section 4.

3.2 Route B – ISO 9712 certification route

Route B is relevant to certification based on ISO 9712 schemes where certificates are issued by RTPO(s) which are NOT recognised in terms of PESR, but who entered a mutual agreement with TWI CL.

3.2.1 All candidates (new and current)

The candidates are required to submit requested details and any relevant documentation needed to meet the requirements of the relevant CSWIP NDT scheme.

Each individual's application shall be assessed in terms of industrial experience, medical fitness, and training and examination requirements. Individuals who meet all relevant access conditions will be issued with appropriate approval.

Those seeking PED compliance, see section 4.

3.3 Route C – Employer-specific certification scheme route

Route C is relevant to certification based on scheme document CSWIP-ES-NDT-12-04 (see www.cswip.com for details) and other scheme documents which are not compliant with EN ISO standard requirements. This route requires manufacturers to have in place a company Written Practice for the qualification of the NDT personnel. Qualification and examination processes must comply with both the manufacturer's Written Practice and CSWIP ES scheme document. Approvals are issued directly by TWI CL.

3.3.1 All candidates (new and current)

The manufacturer is required to submit to the Examining Body a company Written Practice, relevant NDT procedures, and details of the individuals concerned.

a) Scheme compliance assessment

The examination body will assess (i) if the written practice comply with CSWIP ES document and (ii) if the NDT procedures are based on harmonised EN ISO standards for NDT.

Note: In the event that a gap is identified the Examination Body may advise the manufacturer on the required corrective action(s).

b) Individual application assessment

The Examination Body will assess the individual's application in terms of industrial experience, medical fitness, and training and examination requirements. The required approvals (e.g. PESR, PED, etc.) shall be reflected during training and examination planning and conduct.

Individuals who will meet all relevant access conditions will be recommended to TWI CL for approval.

TWI CL will then review the candidate's documentation pack, ensure that the requirements have been met and that the correct procedures have been followed, and issue the appropriate certificate(s).

4 PED APPROVAL

TWI CL has entered into a mutual recognition agreement with EU RTPOs to provide certification in compliance with the EU PED to CSWIP certificate holders, and UK PESR certification to non-CSWIP certificate holders. Candidates accessing the PESR approval may apply for PED approval as well.

Candidates must identify on the application form that they require compliance with the PED. Assessment will be conducted as per Section 3.1 or 3.2 or 3.3 as appropriate. Successful candidates will have their documentation passed to our EU RTPO partner who, upon a successful review, will issue an EU PED-compliant approval directly to the applicant (Candidate or Sponsoring organisation) as appropriate.

Those certificate holders whose Certification Body (EU RTPO) has not entered into a mutual recognition agreement with TWI CL, and wish to gain UK PESR-compliant certification, should contact TWI CL directly for further details and guidance.

5 APPROVAL DOCUMENTATION

5.1 Route A: CSWIP candidates

Approval is accredited in the NDT certificate. Two NDT certificates are issued to the sponsoring organisation, usually the manufacturer, for each successful examination/application.

5.2 Route A: Non-CSWIP candidates

Candidates are issued with a certificate of approval, which is a summary of methods and sectors for which the candidate holds the approval. Each individual approval is linked to the original certificate, which must be identified on approval.

5.3 Route B candidates

Candidates are issued with a certificate of approval, which is a summary of methods and sectors for which the candidate holds the approval. Each individual approval is linked to the original certificate, which must be identified on the certificate.

5.4 Route C candidates

Candidates are issued with a certificate of approval, which is a summary of methods and sectors for which the candidate holds the approval. Each individual approval is linked to the original certificate and the name of the manufacturer whose system was assessed by the Examining Body.

Note: Any changes to manufacturer, Company Written Practice and Manufacturer's NDT procedures will require re-evaluation in accordance with the same criteria as used originally. Subject to the results of the re-evaluation being satisfactory, a new approval certificate will be issued.

5.5 Certificate of approval content

The certificate of approval shall, as a minimum, contain the following:

- CSWIP identification;
- Certificate of approval number and the certificate of approval issue date;
- Explicit statement of approval in reference to UK Pressure Equipment Safety Regulation;
- Indication of route used to achieve approval;
- Full name and date of birth of person approved;
- Schedule of methods, sectors and levels for which the candidate is approved;
- Identification of certificate on which the approval is based (Certification body, number, expiry date);
- Unique approval number(s) under which approval appears on verification website;
- CSWIP embossed stamp and TWI CL representative signature.

Additionally, certificates of approval based on route C shall contain the following information:

- Name of the employer who requires the approval;
- Conditions for the maintaining the validity of the approval.

5.6 Certificate of approval numbering system

- Each printed certificate of approval will be allocated a unique number in the following format: PESR-NDT-XXXXXX/YY
 - PESR – to identify UK Pressure Equipment (Safety) Regulation 2016
 - NDT – to distinguish from welder approval
 - XXXXXX – 6 digit candidate ID number
 - YY – the serial number of issue (certificate of approval of the given number may need to be updated when the certification expires or is expanded. The first issue will have number 01; any consequent update will have number [+1] from the previous issue).

5.7 Certificate of approval format and delivery

The Certificate of approval will be issued in hardcopy, printed on standard CSWIP cream paper. Each client will receive one copy of the Certificate of approval.

Applicants who submitted applications directly to TWI CL will receive the Certificate of approval via standard mail.

Where the application was submitted on behalf of the applicant by any partner RTPO, the copy of the Certificate of approval will be shipped to the relevant RTPO for further distribution.

5.8 Certificate of approval duplicates

Duplicate certificates may be issued to the candidate or sponsoring organisation to replace any which are lost or destroyed. This will only be done after extensive enquiries by TWI CL.

5.9 Approval validity

Certificates of NDT Approval have a maximum validity period of five years for route A and B, and three years for route C.

Certificates of approval are only valid providing that:

- a) They are accompanied by an original copy of the certificate on which the approval was based. The Master NDT certificate must be within date;
- b) They are on standard cream CSWIP paper signed by an officer of CSWIP and embossed with the CSWIP stamp;
- c) They have been signed by the individual to whom the certificate is awarded.

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The validity of PESR approval is linked to the NDT certificate validity. The approval expiry date is indicated on the Certificate of approval.

Note: Validity of PED approval is defined in documents published by the Partner Certification Body

5.10 Approval renewal

Details for the renewal and recertification of certificates for Routes A, B and C can be found in the relevant scheme documents, as mentioned above. Those who achieved a PESR-compliant certificate via these routes will continue to have PESR compliance upon the successful renewal or recertification of their certificate (provided this was requested on the enrolment documentation at the time when renewal of master certificate was requested, or requested documents for routes B and C were submitted).

CSWIP certificate holders who achieved PED compliance and wish to maintain it should notify TWI CL at the point of renewal or recertification, so that upon a successful application, their details can be passed to the relevant EU RTPO for review and, if successful, the issuing of a PED-compliant certificate.

6 RESTRICTION, REVOCATION AND TERMINATION

TWI CL may restrict the scope of the certificate or approval issued (or to withdraw it completely) when:

- a) There is evidence of violations in procedures or behavioural rules, or of misuse of or default in payment for certification services.
- b) Changes to the manufacturer's documentation, which affect the previous assessment and compliance is no longer maintained.

All those whose certification or approvals are terminated, revoked or restricted shall be informed in writing of the effective date, reason for such action, and routes which candidates who are dissatisfied may follow (e.g. appeal).

7 COMPLAINTS AND APPEALS

An aggrieved party which considers itself to have reasonable grounds for questioning the competency of a CSWIP qualified person may petition TWI CL's Governing Board for non-renewal of the certificate. Such a petition must be accompanied by all relevant facts, and if the Board believes 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 not be renewed without further test.

Appeals against failure to certify, against non-renewal of the certificate, or against revocation or termination may be made by the candidate or the manufacturer to the Governing Board upon application in writing. Applications must be made within six months of the date when appealed action took place.

8 RECORDS

Examining Bodies and TWI Certification Ltd maintain records of evaluations, witnessing and audits. Full records are held for a minimum of 12 months from the date of the evaluation. Outline details of the evaluation and the results are maintained on file.

9 ADDRESSES

For further general information about the approval schemes covered in this document contact:

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

TWI Training and Examinations

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Web: www.twi.co.uk

REFERENCES

- [1] Pressure Equipment (Safety) Regulations 2016

- [2] BS EN ISO/IEC 17024 Conformity Assessment General Requirements for Bodies Operating Certification of Personnel.
- [3] BS EN ISO 9712 Non-destructive testing – Qualification and Certification of Personnel.
- [4] Pressure Equipment Directive (2014/68/EU)
- [5] CSWIP-ES-NDT-12-04 Requirements for Employer Specific Certification of Personnel Engaged in Non-Destructive Testing in accordance with the requirements of ISO 9712
- [6] 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
- [7] CEN TR 15589 Non-destructive testing. Code of practice for the approval of NDT personnel by recognised third party organisations under the provisions of Directive 97/23/EC