

PSL/30 LOG OF INDUSTRIAL NDT EXPERIENCE

Issue 14 dated: 24 Feb 2021

IMPLEMENTATION DATE: 24 Feb 2021

1. Document Scope

Industrial NDT experience is defined as the experience acceptable to the certification body, gained under qualified supervision, in the application of the NDT method in the sector concerned needed to acquire the skill and knowledge to fulfil the provisions of qualification.

This document mandates that the candidate's industrial experience shall be documented/recorded by the candidate in the form of a personal log, prior to full peer review and attestation to acceptability by suitably qualified persons. All industrial NDT experience shall meet the minimum requirements within BS EN ISO 9712 and all additional requirements contained herein.

The employer, who may also be the suitably qualified person, shall make a final declaration on Form 1 within the candidate's PSL/30 application as to the suitability of the candidate's experience. The candidate shall then submit their PSL/30 application, supported by completed form PSL/57C, to PCN for review and consideration by the BINDT certification team, which MAY, in addition to reviewing the PSL/30 application, request sight of the candidate's completed experience log. Where all PCN training, examination and industrial experience requirements have been satisfactorily achieved, PCN shall release certification for the purpose of carrying out NDT in the method and employer's industrial sector required.

It is the employer's responsibility to document the validity of the personal information provided to PCN. This information shall include the declaration of education, training, industrial NDT experience and visual acuity needed to determine the certification eligibility of the candidate. If the candidate is unemployed or self-employed then the declaration of education, training, industrial NDT experience and visual acuity shall be attested to by at least one independent party acceptable to the certification body.

For details of ALL employer responsibilities attributed, please see the current issue of ISO 9712

In the event that a false statement is made by the candidate or the candidate's employer concerning pre-certification experience, certification awarded as a result shall be classified null and void, and appropriate additional measures will be implemented through use of CP27: The code of ethics for PCN certificate holders.

2. Table of Contents:

Contents – Table 1:	Log of Industrial NDT Experience	
Section Number:	Content	Page Number:
1	Document Scope	1
2	Table of Contents	1
3	Terms and Definitions	2
4	Required Experience for PCN Certification – Level 1, Level 2	3
5	Required Experience for PCN Certification – Level 3	4
6	Possible Experience Hour Reductions	4

7	Recording of Experience	5
Form 1	PSL/30 – Declaration of Satisfactory Completion of Industrial Experience	6
Form 2	PSL/30 – Candidate’s Log of Practical Industrial NDT Experience	7
Summary of changes		8

3. Terms and Definitions:

3.1 Candidate:

Individual seeking qualification and certification who gains experience under the supervision of personnel having a qualification acceptable to the certification body.

3.2 Certificate:

Document issued by the certification body under specified provisions, indicating that the named person has demonstrated the competence(s) defined on the certificate.

3.3 Employer:

Organisation for which the candidate works on a regular basis.

Note 1: An employer can also be the candidate at the same time. Where the candidate is the employer and for the purposes of providing attestation to industrial experience, then the candidate shall enlist the service of an independent third-party adjudicator for the purpose of peer review and attestation that all industrial experience criteria have been met in accordance with requirements contained both in BS EN ISO 9712 and PSL/30.

3.4 Employer attestation declaration:

Final attestation made by the employer on Form 1 that all experience requirements have been met by the candidate in the pursuance of PCN certification, after confirmation by the suitably qualified person. **The employer may also be the suitably qualified person.**

3.5 Industrial NDT Experience:

The experience needed to acquire the skill and knowledge to fulfil the provisions of qualification in the appropriate NDT method and industrial sector(s) and which is gained under the supervision of Appropriately Qualified Personnel (see 3.10).

3.6 NDT Instruction:

Written description of the essential steps to be followed in testing to an established standard, code, and specification or NDT procedure.

3.7 NDT Method:

Discipline applying a physical principle in non-destructive testing.

3.8 NDT Procedure:

Written description of all essential parameters and precautions to be applied when non-destructively testing.

3.9 NDT Technique:

Specific way of utilising an NDT method.

3.10 Qualified Supervision:

Supervision of candidates gaining experience by NDT personnel certificated in the same method or under supervision by non-certified personnel who, in the opinion of the certification body, possess the knowledge, skill, training and experience required to properly perform such supervision.

3.11 Appropriately Qualified Personnel:

NDT personnel certificated in the same method and level or under supervision by non-certified personnel who, in the opinion of the certification body, possess the knowledge, skill, training and experience required to properly perform such supervision. An employer may also be the suitably qualified person.

Individuals carrying out supervision of candidates for PCN certification holding relevant certification issued by a BINDT-recognised certification body meeting the requirements of ISO/IEC 17024.

3.12 Sector:

Particular section of industry or technology where specialized NDT practices are used, requiring specific product-related knowledge, skill, equipment or training.

3.13 Specification:

Document stating requirements.

3.14 Suitably qualified independent person:

NDT personnel certificated in the same method or under supervision by non-certified personnel who, in the opinion of the certification body, possess the knowledge, skill, training and experience required to properly perform such supervision. An employer may also be the suitably qualified person.

3.15 Supervision:

Act of directing the application of NDT performed by other NDT personnel, which includes the control of actions involved in the preparation of the test, performance of the test and reporting of the results.

NOTE 2: Qualified supervision certification **SHALL** be at a higher or equivalent level as certification required by the candidate and shall be valid at the time the experience was gained by the candidate. This may include certification schemes other than ISO 9712, such as EN 4179 and SNT-TC-1A, providing that this certification has been gained using external training/examination support provided by a BINDT-approved organisation or organisations holding ATO, AQB, and/or Outside Agency status.

Where the employing organisation does not have appropriately qualified supervision, please contact pcn@bindt.org for further advice.

NOTE 3: does not apply to Weld Inspection recertification / renewals.

4. Required Experience for PCN Certification – Level 1, Level 2:

The candidate shall have had regular practical experience in the application of the NDT method; this will include a specified period of recorded practical work on site or in works under certificated supervision. The minimum periods of experience for eligibility, which may include the required period of training, are specified below:

Table 2:	Industrial experience required prior to release of certification – taken from BS EN ISO 9712:2012		
NDT METHOD	PCN LEVEL 1	PCN LEVEL 2	PCN LEVEL 3
	Experience	Experience	Experience
ET,RT,UT,TOFD,ACFM	3 (months) / 480 (Hours)	9 (months) / 1440 (Hours)	36 (months) / 5760 (Hours)
PT,MT,VT,PAUT	1 (months) / 160 (Hours)	3 (months) / 480 (Hours)	24 (months) / 3840 (Hours)
RI	N/A	6 (months) / 960 (Hours)	N/A
Inspection of Wrought Plate (ISO20807)	N/A	4 (months) / 640 (Hours)	N/A
Weld Inspection (Complies with PCN WI)	Refer to the latest PCN document PCN WI	Refer to the latest PCN document PCN WI	Refer to the latest PCN document PCN WI
<p>Work experience is based upon a nominal 40-hour week or the legal week of work. When an individual works in excess of 40 hours per week, he or she may be credited with experience based upon the total hours, but he/she shall be required to produce evidence of all experience.</p> <p>For Level 2 certification, work experience normally consists of time as a Level 1; however, if the candidate is to qualify directly to Level 2 with no time at Level 1, the experience will consist of the sum of the periods required for Levels 1 and 2.</p>			

5. 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. Table 2 above details minimum experience requirements for Level 3 candidates.

For Level 3 candidates who have successfully completed a degree or diploma at a technical school or completed at least two years of engineering or science study at an accredited college or university, proof of qualifications will be required and they may be eligible for a reduction in the amount of experience required by up to 50%.

For Level 3 certification, the intent is that work experience consists of time as a Level 2. If the individual is being qualified directly from Level 1 to Level 3, with no time at Level 2, the experience shall consist of the sum of the times required for Level 2 and Level 3. No reduction in the period of experience shall be allowed.

6. Possible Experience Hour Reductions:

6.1 The possible reductions in duration of experience are described herein, provided that when several reductions are applicable, the total reduction in the duration of experience shall not exceed 50% of the total industrial experience required as listed within Table 2.

6.2 It should be noted that any reduction in the amount of experience shall require acceptance by the certification body (BINDT).

6.3 Prior to applying experience hour reductions, it shall be noted by the candidate and employer alike that the quality of experience can be variable, and the skills may be assimilated more quickly in an environment where the experience is concentrated with a high degree of relevance to the certification sought. Where an employer's facilities do not allow for such high degrees of exposure to NDT, the employer may wish to consider utilising PCN's fast track experience facility provided by the requirements contained in:

6.3.1 CP28 Fast Track Requirements.

6.4 It should also be noted that when gaining experience simultaneously in two or more surface methods, i.e. MT, PT, and VT, the experience gained in the application of one NDT method may be complementary to the experience gained in one or more of the other surface methods.

6.5 Experience in one sector for which certification is already held may be complementary to the experience required within a different sector using the same method.

6.6 Where a possible reduction is sought, the certification body shall consider the level and quality of education possessed by the candidate at all levels prior to any possible reduction being authorised.

6.7 Where credit for work experience has been gained simultaneously in two or more of the NDT methods covered by BS EN ISO 9712, the possible allowable reductions may applied be as follows:

6.7.1 Two testing methods – reduction of total time required by 25%

6.7.2 Three testing methods – reduction of total time required by 33%

6.7.3 Four testing methods – reduction of total time required by 50%

Reductions in experience as above, shall only be applied to applications being submitted together, reductions cannot be applied to applications submitted separately.

In all cases, the candidate shall be required to show that for each of the NDT method and sector combinations for which they seek certification, they have at least half of the experience required, and this shall never be less than one month in duration.

NOTE 4: ALL Level 3 candidates shall have accrued ALL the required NDT experience, prior to taking any PCN examination.

6.8 In all cases, the candidate shall be required to show that for each NDT method and sector combinations for which certification is sought they have at least half of the of the experience required and that this shall never be less than one month in duration.

6.9 Where certification sought is limited in application (for example for such things as thickness measurement or automated testing), the experience duration may be reduced by 50% but shall never be less than one month.

6.10 In instances such as fast track (see CP28), up to 50% of the practical experience time may be achieved by an appropriate practical course, the duration of which may be weighted by a factor of 5. (This procedure shall not be used in conjunction with 6.9). The course shall concentrate on practical solutions of frequently occurring testing problems involving a significant element of testing known defective samples. This program shall have been approved by the certification body and offered by only those organisations that have achieved the necessary extension to scope.

7. Recording Experience:

- 7.1 Candidates will be required to provide documented proof, authenticated by an employer or responsible agency (whom PCN may contact for verification purposes), of the above work experience before an application for certification can be accepted by PCN. Please list all employers during the period in which experience was gained.
- 7.2 For those individuals who are employed, self-employed or unemployed, then the requirement would be for a suitably Qualified Independent Person to attest to the candidates Industrial work experience.
- 7.3 The forms overleaf, which may be freely copied, are intended to assist the PCN candidate in recording employment whilst gaining experience for certification.

Candidate's name: _____

PCN number (if known): _____

Candidates Email: _____

Candidates Telephone: _____

<p>Industrial Experience Candidate Declaration: The candidate shall provide brief details of the Industrial NDT experience gained in the <u>METHOD</u> for which certification is sought in the whitespace provided below. Details may include, but not be limited to:</p> <p>The candidates experience and use of - Codes / Industrial Standards / NDT Procedures / Written NDT Instructions and or NDT Techniques for the testing of;</p> <p>The employer's - components / materials / plant or structure.</p> <p>Additionally: The candidate shall keep detailed written records of all industrial experience which <u>SHALL</u> be reviewed by the employer for suitability before the employer declaration is made.</p>	<p>Industrial Experience Employer declaration: The employer shall attest to the candidate having successfully achieved the minimum number of industrial experience hours required for the NDT method as per the requirements contained within Table 2 herein, and BS EN ISO 9712.</p> <p>The employer representative shall review all evidence of industrial experience supplied ensuring:</p> <ul style="list-style-type: none"> All Industrial experience has been attained under qualified supervision; (see *Note) and in the correct application of the NDT method on the employer's product. <p style="text-align: center;">All candidate industrial experience records shall be made available to PCN where requested for additional technical review and scrutiny.</p>
--	---

<p>Candidate: Use the white space below to provide a brief description of Industrial Experience attained.</p> <p>Inclusive dates where experience was gained, please Insert dates: Date from: _____ Date to: _____ NDT Method _____</p> <p>Total hours claimed for the above inclusive time period: _____</p>	<p>Employing Organisation:</p>
---	--------------------------------

	<p>Reviewer (Appropriately qualified person) Name:</p> <p>Professional qualifications:</p> <p>Contact details:</p>	
	<p>Final Employer Declaration:</p> <p>Made by - Name:</p> <p>Signature:</p>	

Candidate Signature:		Date of Candidate Declaration:		Date:	
----------------------	--	--------------------------------	--	-------	--

***NOTE:** Qualified supervision certification SHALL be at a higher or equivalent level as certification required by the candidate and shall be valid at the time the experience was gained by the candidate. This may include certification schemes other than ISO 9712, such as EN 4179 and SNT-TC-1A providing that this certification has been gained using external training/examination support provided by a BINDT approved organisation. Organisations holding ATO, AQB, and/or Outside Agency status. Where the employing organisation does not have appropriately qualified supervision: Please contact pcn@bindt.org for further advice.

NOTE: Form 2 (PSL30) is included as an example of a format for recording a candidate's experience. Other formats are acceptable to PCN providing they address and meet the details included in this form 2 (PSL30).

FORM 2 PSL/30 – CANDIDATE’S LOG OF PRACTICAL INDUSTRIAL NDT EXPERIENCE

SHEET _____ OF _____

Candidate's name: _____

PCN number (if known): _____

Candidate’s email: _____

Candidate’s contact number: _____

NDT METHOD FOR CERTIFICATION	<p>The candidate SHALL keep detailed written records of all industrial experience gained in the NDT method for which certification is required, to meet the minimum experience hours detailed within Table 2. All entries made on Form 2 of PSL/30 shall be reviewed by the employer’s “suitably qualified representative” in preparation for the candidate and employer’s attestation declaration, which shall be made on (Form 1) within PSL/30, prior to the candidate’s submission of Form 1 to PCN for verification.</p> <p>Experience in the METHOD for which certification is sought should be entered into the white space below. Details may include, but not be limited to, the candidate’s use of codes, industrial standards, NDT procedures, written NDT instructions and techniques for the testing of the employer’s components / materials / plant or structure.</p>			
Candidate: Insert details of NDT technique / code / procedure or standard applied	Candidate: Insert details of employer’s component / material / weld / structure or plant inspected	Candidate: Insert date of NDT task commencement	Candidate: Insert number of experience hours accrued on task:	Experience confirmed as satisfactory by, Insert name and certification No. for each entry:

Summary of changes

Issue	Issue date	Summary of changes
10	01/07/2018	NOTE changed to state same or HIGHER level, sector and method.
11	01/10/2019	Day, month and year added to experience log.
12	01/10/2020	Full document review and re-write incorporating revised candidate and revised employer attestation requirements.
13	25/11/20	Form 1 amended to include total hours gained
14	24/02/2021	Table 2 revision to include Level 3 requirements