

## FAST TRACK WORK EXPERIENCE PROGRAMME

ISSUE 1 DATED 1<sup>st</sup> July 2019

### CONTENTS

1.	SCOPE .....	1
2.	REFERENCES.....	1
3.	TERMS AND DEFINITIONS.....	2
4.	ABBREVIATIONS.....	2
5.	DUTIES AND RESPONSIBILITIES.....	2
6.	PROCEDURE .....	2
7.	QUALIFICATION OF SUPERVISORS.....	3
8.	APPENDIX 1.....	4
9.	APPENDIX 2.....	5
10.	APPENDIX 3.....	6

### 1. SCOPE

- 1.1 This procedure describes the requirements to allow a PCN candidate to gain work experience at a BINDT Approved Training Organisation (ATO) whilst carrying out practical testing on specimens appropriate to the sector, method and level.
- 1.2 BINDT Approved Training Organisations shall create their own procedure in accordance with this document.
- 1.3 BINDT will audit the ATO in accordance with their Fast Track Work Experience Programme procedure.
- 1.4 The audit cycle will consist of an initial audit and subsequent audit at ATO re-assessment.
- 1.5 BINDT Central Records Office will conduct a random check on records.

### 2. REFERENCES

- 2.1. PCN/Gen – General Requirements for Qualification and PCN Certification of NDT Personnel (section 8.4.5).
- 2.2 ISO 9712 – Non-Destructive Testing Qualification and Certification of Personnel (section 7.3.3.5), which states:

*“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 maximum factor of 5. ... The course shall concentrate on practical solutions of frequently occurring testing problems and should involve a significant element of testing known defective specimens. The procedure will be approved by the certification body.”*

### 3. TERMS AND DEFINITIONS

- 3.1. The purpose of this document is to ensure that the Fast Track Work Experience Programme is operated in accordance with BINDT requirements.

### 4. ABBREVIATIONS

The abbreviations used within this document or its appendices are as follows:

ACFM	Alternating Current Field Measurement
AQB	Authorised Qualifying Bodies
BINDT	The British Institute of NDT (the certification body)
CB	Certification Body
ET	Eddy Current Testing
MT	Magnetic Testing
NDT	Non-Destructive Testing
UT PA	Phased array (of eddy current or ultrasonic transducers)
PT	Penetrant Testing
RI	Radiographic Interpreter
RT	Radiographic Testing
UT TOFD	Time of Flight Diffraction
UT	Ultrasonic Testing
VT	Visual Testing

### 5. DUTIES AND RESPONSIBILITIES

- 5.1. BINDT has the responsibility for the control of and amendments made to this document.
- 5.2. The ATO has the responsibility for the control of, and amendments made to, their procedure written in accordance with this document.

### 6. PROCEDURE

- 6.1. Applicants must have completed a BINDT approved course of training in the appropriate sector, method and level before they are eligible to be accepted on to the Fast Track Work Experience Programme.
- 6.2. The ATO shall follow their standard booking process ensuring the appropriate sector, method and level of practical specimens are presented to the candidate.
- 6.3. Dates will be agreed with the candidate, taking into consideration the maximum time allowed, being 50% of the total work experience time, and the 1:5 factor, as shown in Tables 1 (Appendix 1).
- 6.4. The ATO shall provide the candidate with a Practical Work Experience Log (PSL-30) in which to record their experience.
- 6.5. PSL-30 to be submitted to BINDT along with Specimen Evaluation Report (Appendix 2) when applying for post experience (PSL-57c) or to an AQB when applying for PCN examination.
- 6.6. The candidate will test a minimum number of specimens per day as described in Table 2 (Appendix 1) and present a Specimen Evaluation Report (Appendix 2) to the trainer/supervisor who will compare the specimen report with the Master Report.
- 6.7. Specimens used for testing during the fast-track experience process shall not be the same specimens that the controlling ATO or AQB uses for programmed PCN examinations. Specimens identified as training specimens may be used in the fast-track process, however the candidate shall not have had previous access to the specimens used for fast-tracking (i.e during his/her training).
- 6.8. The ATO shall retain Master reports for fast-track test specimens showing the location and extent of any known defects. The Master reports shall be prepared by a technician holding a minimum of level 2 in a accordance with a scheme acceptable to BINDT (PCN, SNT-TC-1A or EN4179).
- 6.9. The ATO shall provide the candidate with a written instruction relevant to the specimen.

- 6.10. Where a specimen is tested correctly, the candidate may move on and test another specimen. Where it is not tested correctly, counselling will be provided by the trainer/supervisor and the candidate will be asked to re-test the specimen and produce another report. This process will continue until the trainer/supervisor is satisfied that the candidates report agrees with the Master Report. Records of counselling must be retained on the candidate's file.
- 6.11. The trainer/supervisor will complete and sign the appropriate section of the specimen report (Appendix 2).  
*Note: The report format given in Appendix 2 is for guidance only. The ATO is expected to document all specimens in this way. However, the reporting format may vary by method and sector.*
- 6.12. Candidates will also be expected to carry out daily process control checks as applicable to the method and equipment in use.
- 6.13. Once the candidate has successfully completed the Fast Track Work Experience Programme, the trainer/supervisor will sign the candidate's completed PCN form PSL/30, a copy of which will be retained in the candidate's file.

## **7. QUALIFICATION OF SUPERVISORS**

- 7.1. All trainers/supervisors will hold at least Level 2 certification acceptable to BINDT (PCN, SNT-TC-1A or EN4179) in the appropriate sector/method.

## **8. DOCUMENTATION**

- 8.1. An extension to the ATOs BINDT scope of Approval is required prior to an ATO implementing a fast-track process.
- 8.2. The ATO shall have a fully documented procedure detailed the process it utilises and applies to control the Fast Track Work Experience Programme.
- 8.3. ATO's are expected to retain fully documented records of all candidate fast-track experience gathering. These records shall be available during scheduled BINDT ATO Audits. These records shall be traceable to individual students/candidates and shall include as a minimum.
  - a) Student/candidate details
  - b) Applicable NDT Method and Sector
  - c) Start and end dates for the experience gathering process
  - d) Copies of all Appendix 2 type reports for all specimens attempted during the fast-track experience gathering
  - e) Completed PSL/30 forms as detailed in 6.13 above

## APPENDIX 1

**Table 1**

Method/Level	Work Experience Required	50% of Total Work Experience	Factor of 5 reduction
ET, RT, UT, ACFM Level 1	3 months = 480 hours	240 hours	48 hours Fast Track work experience
ET, RT, UT, UT TOFD, UTPA, ACFM Level 2 (direct access)	12 months = 1920 hours	960 hours	192 hours Fast Track work experience
MT, PT, VT Level 1	1 month = 160 hours	80 hours	16 hours Fast Track work experience
MT, PT, VT Level 2 (direct access)	4 months = 640 hours	320 hours	64 hours Fast Track work experience

**Notes:**

1. It is recognised that practical training on flawed specimens provides more significant opportunities for finding and sizing flaws than in many work placed environments. Therefore, a factor of 1:5 is applied, allowing a reduction in the above times by a factor of 5.
2. For the purpose of this procedure 1 month = 160 hours.

**Table 2**

Method	Technique (If applicable)	Time per specimen Note: one piece may be divided into several specimens
MT, PT	Pre & In-Service	1 hour
	Aerospace	1.5 hours
VT	Pre & In-Service	1 hour
ET	Welds	1.5 hours
	Forgings/Wrought Products	2 hours
	Tube	2 hours
RT	Castings	3 hours
	Castings Rad Interpretation	15 mins per radiograph
	Welds	3 hours
	Welds Rad Interpretation	15 mins per radiograph
UT	Welds	2.5 hours
	Castings	2 hours
	Forgings/Wrought Products	2 hours
UT PA	Set up Files	2 hours
	Analysing Data Files	2 hours
UT TOFD	Welds	1 hour
	Data Files	45 minutes
ACFM	Welds	1 hour
	Data Sets	15 minutes

**APPENDIX 2**

**Example of a typical Specimen evaluation report**

Date			
Method			
Technique			
Specimen number			
Flaw number	Flaw type	Flaw length	Distance from Datum
Diagram of specimen showing indications			
Specimen tested correctly YES/NO:			
Sizing Accepted YES/NO:			
Corrective Action required:			
Confirm counselling provided and recorded on candidate file:			
Candidate Signature			
Date			
Supervisor Signature			
Date			

Sample certificate (to be used by ATO) – Guidance example only



**COMPANY NAME**  
**COMPANY ADDRESS**



**"ATO NAME" IS A BINDT APPROVED  
TRAINING ORGANISATION**

**CERTIFICATE OF FAST TRACK WORK EXPERIENCE PROGRAMME**

This certificate of a BINDT Approved Fast Track Work Experience Programme is awarded to

**CANDIDATE NAME**

Who has successfully completed a Fast Track Work Experience Programme, conducted in accordance with BINDT documents CP08 and CP28,

in the following test method and to the level stated

MAGNETIC PARTICLE TESTING

LEVEL 2

SECTOR: **PRE & IN-SERVICE INSPECTION**

EXPERIENCE GAINING PERIOD: Dates from/to

EQUIPMENT: **PORTABLE & FIXED INSTALLATIONS**

SPECIMEN TESTING EXPERIENCE: .... (hours)

TECHNIQUE(S): **COLOUR CONTRAST & FLUORESCENT**

TRAINING LOCATION:

CERTIFICATE NUMBER:

For and on behalf of **COMPANY NAME**

DATE OF ISSUE: DD/MM/YYYY

SIGNATURE:

NAME:

POSITION:

Successful completion of this BINDT Fast Track Work Experience Programme conducted at an Approved Training Organisation may be used as evidence of eligibility for PCN examination or experience gained post PCN examination