FAST TRACK WORK EXPERIENCE PROGRAMME

ISSUE 1 DATED 1st July 2019

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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:

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

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

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

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

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

Example of a typical Specimen evaluation report

<table>
<thead>
<tr>
<th>Date</th>
<th>Method</th>
<th>Technique</th>
<th>Specimen number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flaw number</th>
<th>Flaw type</th>
<th>Flaw length</th>
<th>Distance from Datum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
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

EQUIPMENT: PORTABLE & FIXED INSTALLATIONS

TECHNIQUE(S): COLOUR CONTRAST & FLUORESCENT

CERTIFICATE NUMBER:

DATE OF ISSUE: DD/MM/YYYY

EXPERIENCE GAINING PERIOD: Dates from/to

SPECIMEN TESTING EXPERIENCE: …. (hours)

TRAINING LOCATION:

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.