UK National Aerospace NDT Board

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UK NANDTB POLICY ON TRAINING AND APPROVAL OF INITIAL PERSONNEL IN NEW NDT TECHNOLOGIES

1. Introduction

1.1 The application of new and emerging NDT methods/technologies requires that NDT personnel must be trained and approved at the appropriate levels in the method/technique. Requirements for NDT personnel training and approval is defined by EN4179, but only defines requirements for the major methods, i.e. penetrant, magnetic, eddy current, ultrasonic, radiography and thermography. This document defines UK NANDTB policy for the training and approval of initial personnel in order that new and emerging NDT technologies can be deployed in a timely manner.

2. Applicability

2.1 All NDT personnel whose training and examination is under the control of the UK NANDTB.

3. Requirements

3.1 Personnel must be qualified and approved in accordance with the general requirements of EN4179 in so far as it is possible in the absence of any prescribed method requirements within the standard.

3.2 Personnel must be approved at appropriate levels commensurate with currently defined responsibilities per EN4179.

3.3 The minimum required training and experience hours shall be established by the UK NANDTB. The UK NANDTB may co-opt experts within the field of the new and emerging NDT technology to provide guidance.

3.4 The minimum hours for training and experience shall be based upon the requirements of an existing NDT method of similar complexity.

3.5 EN4179 permits the subdivision, addition or limitation of approval levels. The UK NANDTB recognises approval at Level 2 Limited (ref NANDTB_17) in addition to Level 1 and Level 2 in order to support the introduction of new and emerging NDT technologies.

3.6 Where a new or emerging NDT method is being introduced at technique level, the UK NANDTB considers it acceptable to allow approval based upon reduced experienced hours. Under such circumstances, personnel may initially be approved as Level 2 Limited.

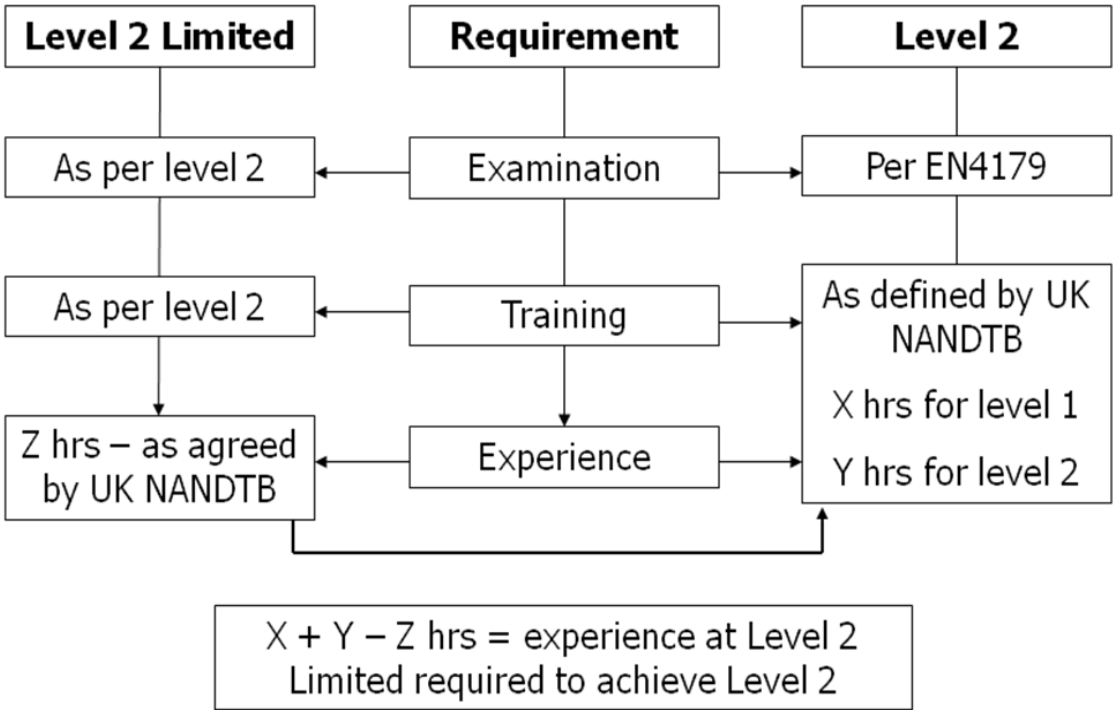
3.7 Any hours spent during equipment trials and validation exercises to bring the technology into an organisation should be documented as these can be assigned as experience hours towards qualification.

3.8 The employer's written practice shall document the requirements for this additional level.

3.9 When sufficient documented experience has been gained, a Level 2 Limited approval can become a level 2 approval, but ONLY in the technique. Approval to perform additional techniques within the method approved shall require further training and examination.

3.10 The training, experience and examination requirements for Level 2 and Level 2 limited are defined by Table 1.

Table 1 – Training, experience and examination requirements for Level 2 and Level 2 Limited



3.11 The responsibility, training, experience, qualification etc. for a Level 2 Limited shall be documented in the employers written practice.

3.12 Personnel approved at Level 2 Limited shall be re-approved annually.

3.13 Personnel approved at Level 2 Limited can reject/accept hardware within the scope of approval.

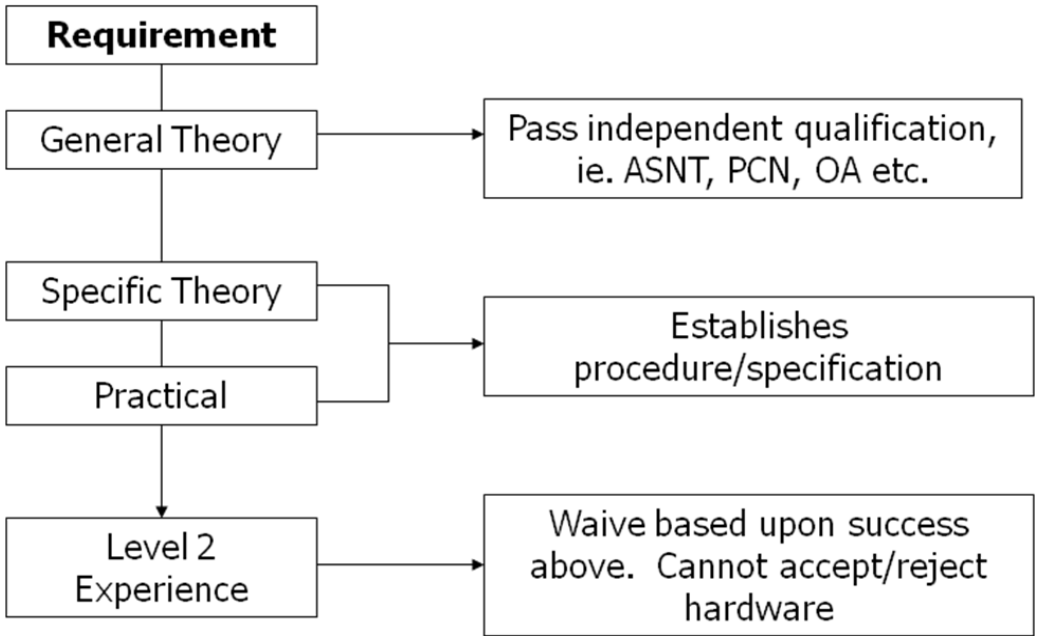
3.14 Personnel approved at Level 2 Limited can achieve Level 2 approval when the minimum experience within the method has been achieved. This level 2 approval must only be in the technique. Performance of additional techniques within the method requires further training, experience and examination as considered appropriate by the Responsible Level 3.

3.15 The responsibilities of a Level 2 Limited shall be per a level 2 operating within the same technique boundaries, as defined within NANDTB/17.

3.16 The application of any new and emerging NDT technology requires an individual to be approved at Level 3 in order that Level 3 responsibilities can be fulfilled. Table 2 defines the UK NANDTB

process for qualifying an employer's first level 3 in the new or emerging NDT method. This process can only be applied once.

Table 2 – Process for approving an initial level 3 in a new or emerging NDT method



Signed for the Board



Kevin Pickup

Chairman of the NANDTB

Revision History

Owner	Issue	Change Summary	Date of publication	Scheduled Review Date
NANDTB	Issue 1	Initial publication	01/06/2012	
NANDTB	Issue 2	Amended 3.5	10/03/2015	
NANDTB	Issue 2	Reviewed but no changes made except for BINDT address and Secretary details	06/12/2016	
NANDTB	Issue 2	Reviewed but no changes made except for Secretary details amended and KP now signed	26/02/2019	
NANDTB	Issue 3	Amended 1.1 to remove shearography Amended 3.15 to remove restrictions on supervision & WI development (to align with NANDTB/17 Iss 6 L2 Ltd policy)	18/06/2024	06/2027