
	<p>Non-Destructive Testing Society (Singapore)/National Aerospace NDT Board 9, Jurong Town Hall Road, #02-21, Singapore – 609431</p>	
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NDTSS/NANDTB/PM/011 (Issue 0)

NDTSS/NANDTB Policy on Training and Approval of Initial Personnel in New NDT Technologies

1. Introduction

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/NAS410, but only defines requirements for the major methods, i.e. penetrant, magnetic, eddy current, ultrasonic, radiography, thermography.



This document defines NDTSS/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

All NDT personnel whose training and examination is under the control of the NDTSS/SNANDTB.

3. Requirements:

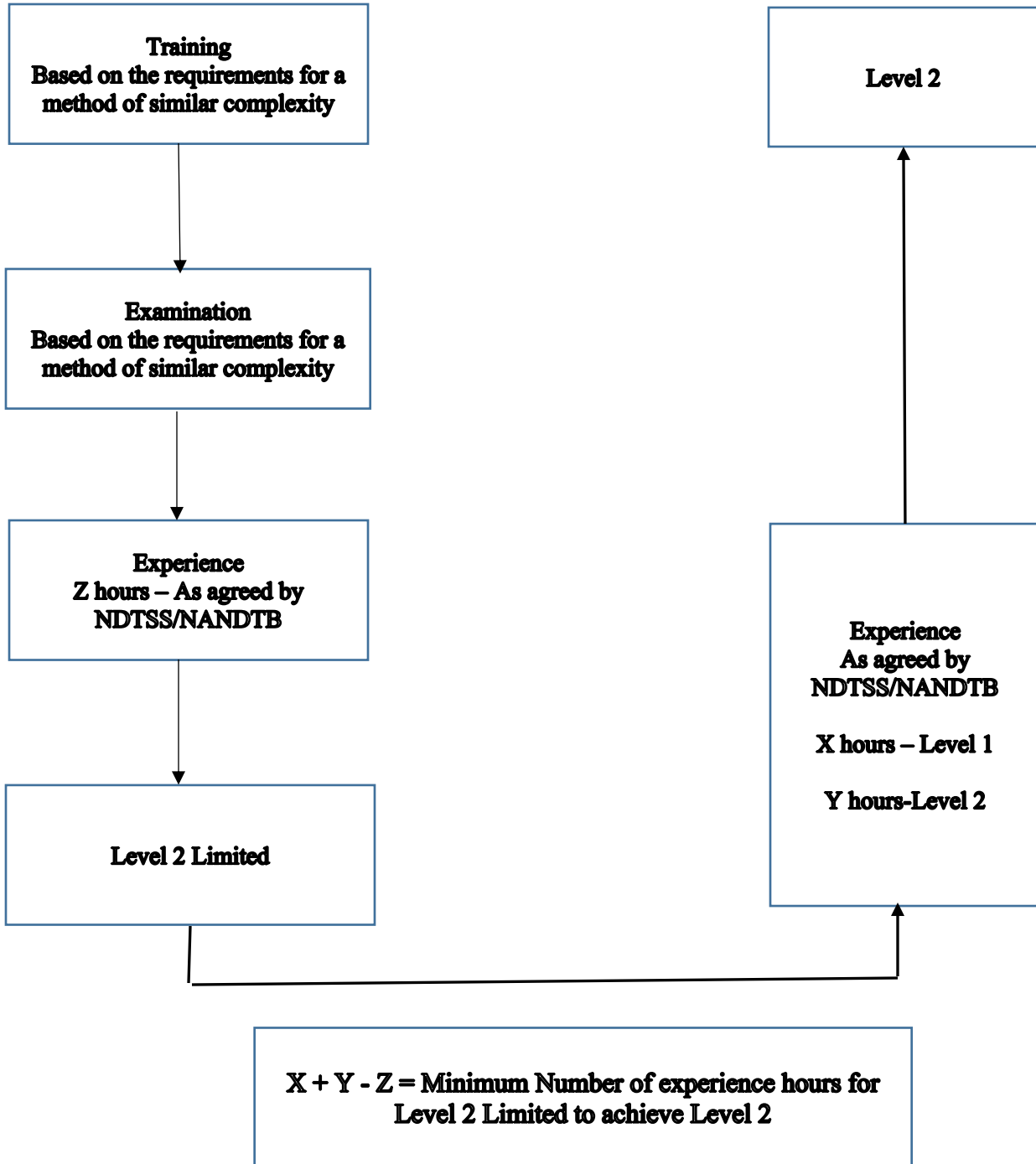
- 3.1 Personnel must be qualified and approved in accordance with the general requirements of EN4179/NAS410 in so far as it is possible in the absence of any prescribed method requirements within the standard
- 3.2 Personnel must be approved at appropriate levels commensurate with currently defined responsibilities per EN4179/NAS410.
- 3.3 The minimum required training and experience hours shall be established by the NDTSS/NANDTB. The NDTSS/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/NAS410 permits the subdivision, addition or limitation of approval levels. The NDTSS/NANDTB recognises approval at Level 2 Limited in addition to Level 1 and



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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 NDTSS/NANDTB considers it acceptable to allow approval base 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



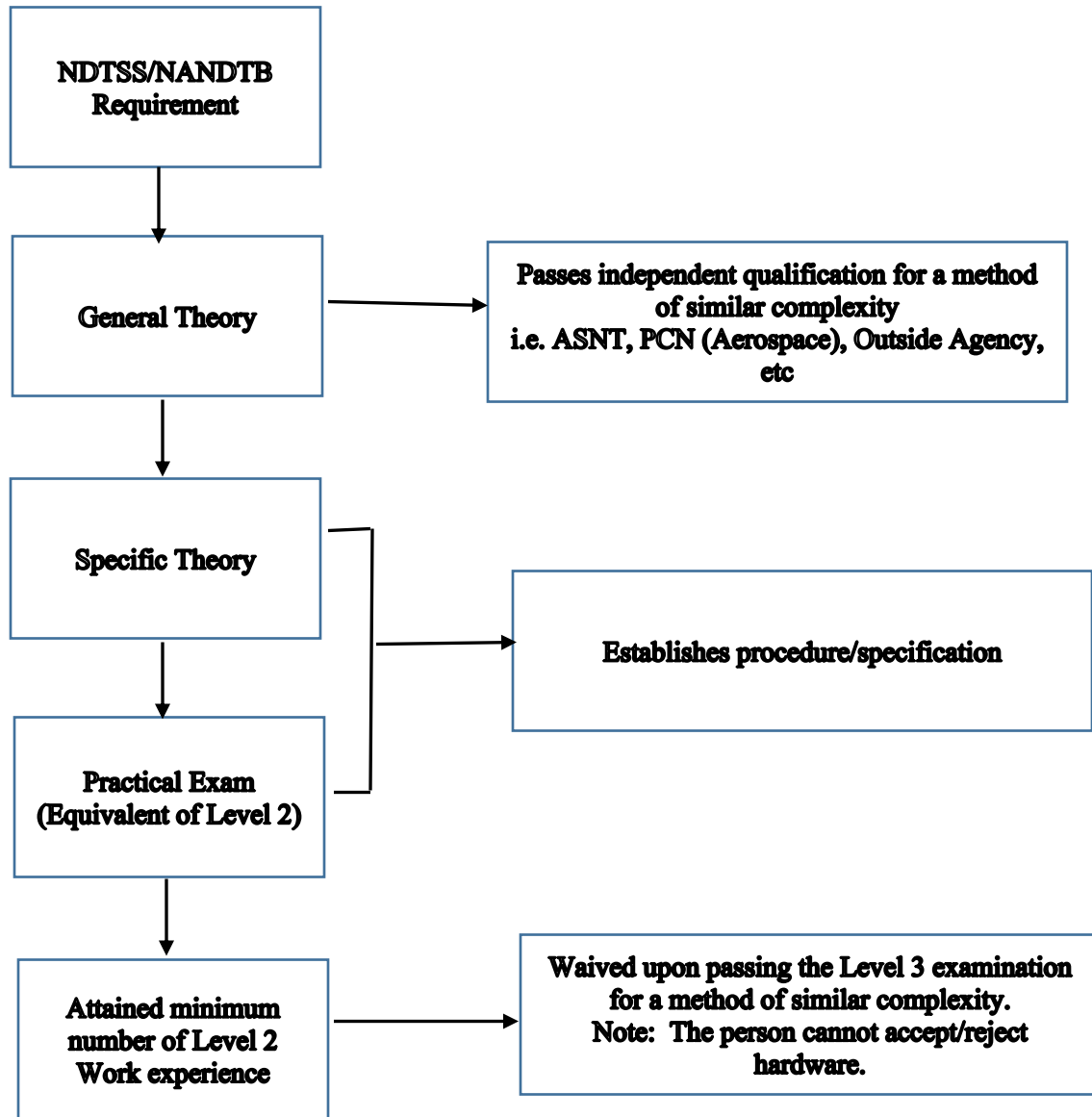
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Note: Specific technique training = Additional training

(This is decided by the Responsible NDT Level 3 and documented in the employers written practice).

- 3.11 The responsibility, training, experience, qualification etc. for a Level 2 Limited shall be documented in the employers written practice. Note: OEM can conduct the training and examinations.
- 3.12 Personnel approved at Level 2 Limited shall be re-approved annually by satisfactory performance or examinations.
- 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 and documented in the employer's Written Practices.
- 3.15 The responsibilities of a Level 2 Limited shall be per a level 2 as defined within EN4179/NAS410 except the Level 2 Limited cannot provide guidance and/or supervision to trainees and level 1 personnel and cannot develop work instructions.
- 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 NDTSS/NANDTB process for qualifying an employer's first level 3 in the new or emerging NDT method. This process can be applied once for every new and emerging NDT technology.

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



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4 Associated Documents

Current revision of the following documents is referenced.

- 4.1 EN4179
- 4.2 UKNANTB document- NAndtB/17 - Qualification and Certification for Level 2 Limited
- 4.3 UKNANTB document- NAndtB/14- Policy on training and approval of initial personnel in new NDT technologies

Change history	
Issue 0	Initial issue

Signed for the Board



01 Aug 2021
Grace Liang Sook Fun
Chairman of the SNANDTB