



# NANDTB-17

## Use of Level 2 Limited personnel

### An Overview

Compiled by the UK NANDTB

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Chair of UK NANDTB

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**The British Institute of Non-Destructive Testing**

The Institute's aim is to promote the advancement of the science and practice of non-destructive testing (NDT), condition monitoring (CM), diagnostic engineering and all other materials and quality testing disciplines.

**Statement on Brexit**  
Released: 14 February 2019

**NDT2019**  
58th Annual Conference  
3-5 September 2019  
The International Centre, Telford, UK

**Latest news**

- 04.04.19 Peak NDT Ltd and KUKA join Advanced Nuclear Research Centre
- 03.04.19 Bond testing flaw detector
- 02.04.19 UK manufacturers see AI as key
- 01.04.19 National recognition for development of NDT apprenticeships
- 28.03.19 Ashtead adds Gekko advanced

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- NDT In-Service Specialist - Filton

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The screenshot shows the BINDT website with the URL <http://www.bindt.org/NANDTB/>. The left sidebar contains a list of links, with "UK NANTB Documents" circled in red and an arrow pointing to it. The main content area displays the "NANDTB UK National Aerospace NDT Board" header and a map of the UK with the "NANTB" logo. Below the map, there are links to contact Kevin Pickup and a list of prime contractors including Leonardo Helicopters, Airbus UK, BAE Systems, Bombardier, British Airways, Aviation Services, Honeywell, Safran Landings Systems, and Rolls-Royce. The footer includes social media links, a "Back to Top" button, and various service links like Certification, Membership, Document Download, Directories, and About Us.

UK NANTB Documents



# NANDTB-17

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- EN4179 p5.1

The employer may **subdivide**, add or limit the levels as appropriate....

- EN4179 p4.4.2

Permits the use of a NANDTB, whose **responsibility** it is to produce processes and **guidelines** to ensure **compliance to the standard**.

The UK NANDTB permit the use of Level 2 limited as an **essential enabler** to **full level 2 qualification** where low volume/scope of parts makes attaining a direct L2 approval challenging within the normal bounds of the standard.

# NANDTB-17 revision 5

- NANDTB-17 was revised in 2018 for better to clarity to users and provide essential guidance including examples on when a level 2 limited qualification can be used.

## TERMINOLOGY:

**TECHNIQUE** – The definition of technique in this document aligns to that in the Standard (both EN4179 & NAS410):

“a category within a method; for example, **ultrasonic immersion testing** or **ultrasonic contact testing**”.

EN4179 does not define techniques within the method, so it is the **responsibility of the RL3** to do so within their **WP** to suit **their requirement**.

# NANDTB-17 revision 5

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## APPLICATION

- The use of Level 2 limited is not mandatory, but is an option intended to **SUPPORT THE DEVELOPMENT** of an individual to FULL Level 2 approval.
- It allows inspectors to become 'productive' at an earlier stage in their development.
- Level 2 limited can be used, **with the exception of RT**, for **ALL common & other methods** currently in the standard.

# NANDTB-17 revision 5

## APPLICATION

- Individuals are restricted to **1 technique per method**
- They may however hold **multiple** Level 2 limited **approvals in different methods**
- It is recommended that the most simple Technique in the method be identified as the Level 2 limited approval

# NANDTB-17 revision 5

## APPLICATION

- A level 2 limited is **limited only** by the **technique boundaries**

i.e. they are **comparable to a full level 2** in that particular technique within the method!

Standardise equipment and process parts

Interpret and evaluate for acceptance or rejection

Document results

Be thoroughly familiar with the scope and limitations of the technique

Provide guidance/training to level 1 and trainees in the technique

Be familiar with codes and standards that control the technique

Be capable of developing work instructions in the technique

Have a basic understanding of relevant manufacturing and inspection methods

Have an understand, where required, of aircraft maintenance



# NANDTB-17 revision 5

## REGULATOR

- Organisations wishing to use Level 2 Limited as the qualification standard to enable the issuance of a **Certificate of Release to Service** under Part 145, shall **seek prior agreement** from the UK CAA/MAA.

# NANDTB-17 revision 5

## REQUIREMENTS

- ALL training and examination to Level 2 limited shall be under the control of the UK NANDTB
- The use of Level 2 limited shall be documented within the WP and by the permission of the Cognizant Engineering Authority
  - You can use it, but you must seek permission first.

# NANDTB-17 revision 5

## EXAMINATION REQUIREMENTS

- Examination requirements shall be documented in the WP and shall meet the following as minimum:
  - General examination, as for Level 2.
  - Specific examination, as for Level 2 covering **all** techniques required by the employer (**not just the technique sought for Level 2 Limited**).
  - Practical examination, consisting of at least two test samples of **differing configurations** for the technique being sought

REMEMBER THIS IS A **STEPPING STONE TO FULL LEVEL 2**

# NANDTB-17 revision 5

## EXAMINATION REQUIREMENTS

- Experience shall not be less than that required for level 1
  - The RL3 should consider the complexity of the technique remembering the scope of the Level 2 limited is limited only by that of the technique and must be defined in the WP
- Recertification shall be achieved by re-examination equivalent to initial at intervals **not exceeding 1 year**

REMEMBER THIS IS A **STEPPING STONE TO FULL LEVEL 2**

# NANDTB-17 revision 5

## PROGRESSION TO LEVEL 2

- The company should provide the resource, opportunities and encouragement to enable progression to full level 2
  - It is not intended for level 2 limited to be a long term level of approval
- Experience must be gained in line with Table II of the standard covering all other techniques (as deemed appropriate by the RL3)
- Practical examination as per the standard for level 2.
  - Refer to NANDTB-17 for those that only use one technique

REMEMBER THIS IS A **STEPPING STONE TO FULL LEVEL 2**

# NANDTB-17 revision 5

## EXAMPLES OF WHEN USED

- NANDTB-17 rev 5 has several worked examples
- If you are considering using Level 2 limited and are unsure of an applicable scheme, please contact the UK Board for advice.

# QUESTIONS?

