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Training and approval of initial personnel in new NDT technologies

Background

- The application of new NDT methods/technologies requires that personnel be approved at the appropriate levels in the relevant method.
- Requirement for NDT personnel training and approval is defined by EN4179, but only defines requirements for 'major' methods.
- There is a risk that formal training and approval could become adhoc across the industry if not prescribed.
- The UK NAndtB has a responsibility to ensure this does not happen.

Rules

- Must comply with requirements of EN4179 in so far as is possible in the absence of any prescribed method requirements.
- Personnel must be approved at appropriate levels commensurate with currently defined responsibilities.

Training & Experience

- Latest draft of NAS410/EN4179 proposes the training and experience hours for some new NDT methods, e.g. IRT:

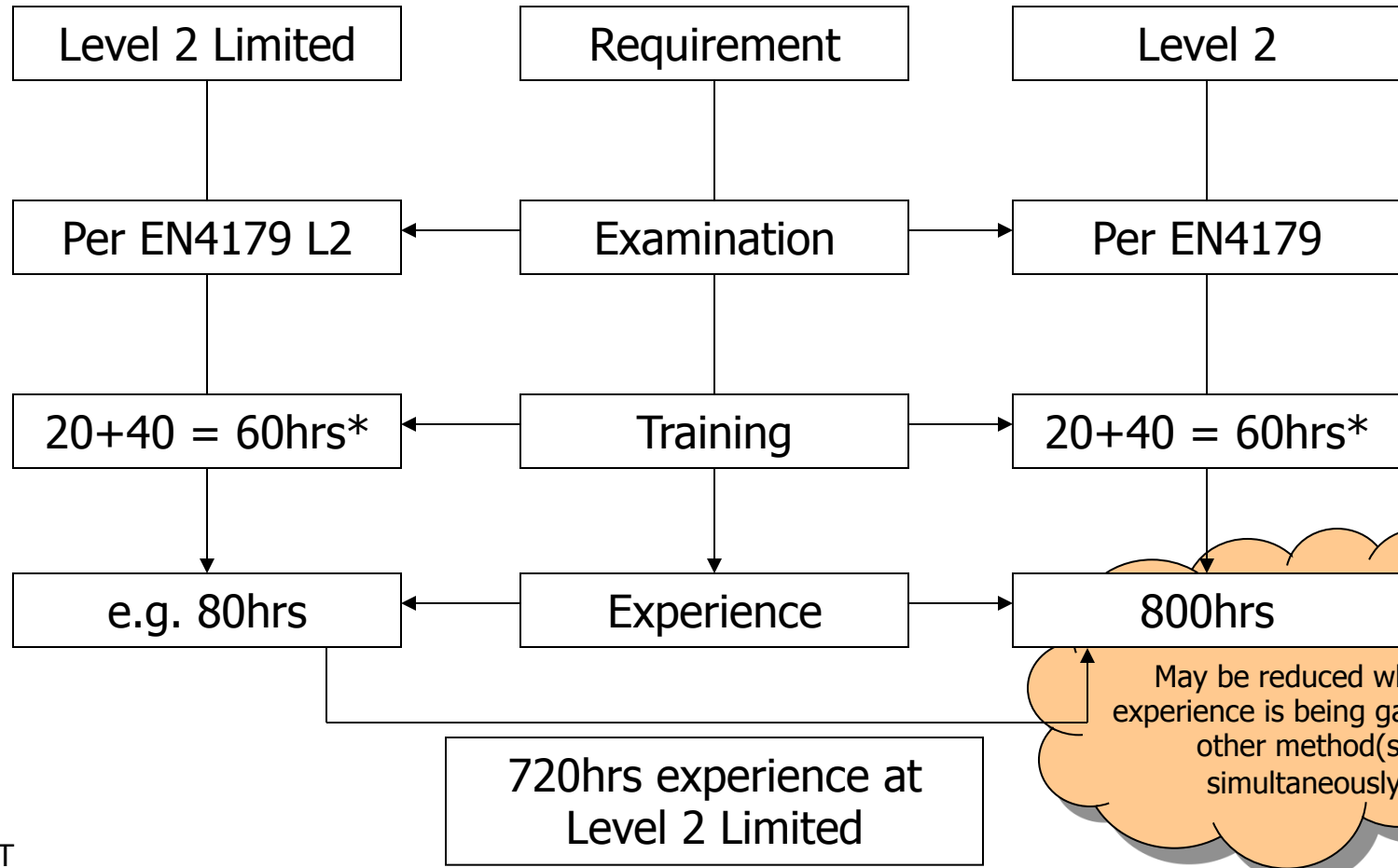
	level 1	level 2	level 2*	
Training	20	40	60	
Experience	200	600	800	
			* Direct Access	

- No reason to presume these are not appropriate for new NDT methods.

Reduced Experience

- If a new NDT method is being introduced at technique level, then it should not be unreasonable to allow approval based upon reduced experience.
- Proposed that under such circumstances, personnel be initially approved as Level 2 Limited.
 - Note: EN4179 permits the use of additional levels.
- The employers written practice must document the requirements for any additional levels (may be a separate training pack).
- When sufficient documented experience has been gained, a Level 2 Limited can be approved as a level 2... in the technique.

Approval Process



* for IRT

Level 2 Limited

- Must be re-approved annually.
- Can accept/reject hardware.
- Can only be approved to level 2 within technique (after gaining required level 2 experience).
 - Performance of additional techniques within the method may require further training, experience and examination as considered appropriate by the Level 3 (see later).

Level 3

- Required to fulfil Level 3 responsibilities.
 - Approve procedure/specification/technique.
 - Approve Level 1, Level 2 Limited, Level 2 personnel.
 - Approve additional level 3's to full EN4179 requirements.
 - Etc.

Genesis Level 3 Approval

