

Training in a different class

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<< Eligibility

There are no formal entry requirements, however apprentices without Level 1 English and maths will need to achieve this level and take tests for Level 2 English and maths prior to taking the End Point Assessment. There is also a requirement to have good aided or unaided eyesight to satisfy the mandatory NDT eyesight test and have appropriate physical fitness.

Requirements: Knowledge, Skills and Behaviours

Below is a **summary** of the required **knowledge, skills** and **behaviours** for a Level 2 NDT Operator:

Knowledge and understanding of:

- In-depth knowledge of one NDT method and an awareness of others
- The knowledge required for the assessment of defects against acceptance/rejection criteria (required by standards)
- Relevant sector specific knowledge e.g. inductions, confidentiality
- Material and product technology
- The consequences of failure and the risks to life

Skills and Ability:

- Demonstrate health and safety competencies pertinent to the NDT method e.g. working at heights, in confined spaces or in restricted zones
- NDT in one method, from the list of methods below:
 - Ultrasonic Testing
 - Radiographic Testing
 - Eddy Current Testing
 - Infrared Thermography Testing
 - Magnetic Particle Testing
 - Penetrant Testing
 - Visual Testing
- Carry out inspections using one NDT method, **for example:**
 - Revealing defects present on the external surface of the test item/component
 - Using minimum levels of interpretation, usually by visual assessment only
 - Safe operation of the equipment within its capabilities and limitations

- Work under technical supervision and to report regularly on progress
- Demonstrate a disciplined approach relating to industry standard operations and processes
- Exhibit environmental awareness and undertake safe working practices
- Have good practical ability, including hand/eye coordination, in order to apply NDT

Behaviour

- **Communication** – communicate effectively with senior NDT staff
- **Teamwork** – to work effectively in a team and to support others
- **Delivery** – to consistently see things through to timely completion
- **Common sense** – to consistently apply knowledge and experience with balance
- **Influence** – have a positive impact without relying on others
- **Ethics** – to act with maturity, honesty, integrity and responsibility

Independent End Point Assessment

To successfully complete the apprenticeship, the learner needs to pass an End Point Assessment. This is an independent assessment which has several stages:

- **A Portfolio of Evidence and Achievements** – for example certificates of competence, letters of approval, training attendance certificates, log book of on-the-job training (experience) and employer reports.
- **Product Showcase** – a presentation of the NDT project to demonstrate that the required knowledge and skills have been achieved.
- **Observational Interview** – the interview panel will include two people who are knowledgeable in engineering and NDT and who are appointed by the independent assessment organisation. The interview will enable the apprentice to demonstrate the knowledge, skills and behaviours demonstrated in the Standard.

Qualifications / NDT Certification

In the NDT Testing Sector, apprentices are required to achieve NDT Level 2 certification in one method in accordance with national and international standards.

Please contact us to arrange an introductory meeting

Freephone: 0800 612 6224

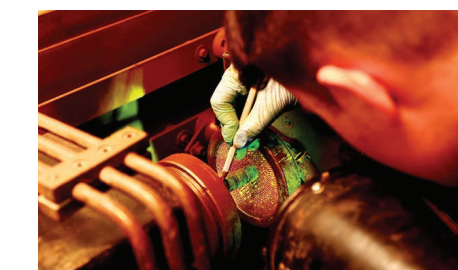
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Level 2 NDT Operator

New Apprenticeship Standard

At Skills Training UK we go further in fully understanding what it is that our employer clients want to achieve from their training. We work as their partner in delivering on that vision, developing stronger employees who work well as individuals and as part of a team.



This apprenticeship is for an NDT Operator who will usually work as part of an inspection team or department performing NDT inspections to pre-defined NDT Work Instructions and reporting his/her findings through the employer's Quality Management System processes. Their findings will be subject to review and authorisation by suitably qualified and experienced supervisory staff, such as NDT Engineering Technicians, to ensure that the results are accurate and reliable.

The skillset and depth of proficiency retained by the NDT Operator, whilst singularly focused on one NDT method, are nevertheless transferable across all engineering sectors.

This apprenticeship will provide resources to meet future engineering requirements, such as, nuclear new build, power generation, transport, oil and gas and defence.

Employer Commitment

An employer must be prepared to provide the learner with the opportunity to carry out work and be part of projects which will enable the learner to produce substantial evidence towards their qualification.

In order to ensure the successful progression of the learner we request that employers participate in joint reviews of the learner's progress at regular intervals throughout the apprenticeship. This ensures continued and positive progress through the apprenticeship. It will also provide the opportunity to discuss and agree how any issues are to be resolved and how additional stretching and challenging activities can be built in.

Duration

The duration of this apprenticeship is typically 18 months and an independent End Point Assessment must be completed at the end in order to pass. See over.

Training and Support from Skills Training UK

Skills Training UK will work with the employer to develop a training plan for the apprentice and our trainer-assessor will visit the apprentice within the work place at least once per month in order to support their learning and development. They will also be supported between visits by off-site information, advice, guidance, academic progress and technical competence support. We will ensure that all learning needs are being met in order to ensure successful progression against all elements of the apprenticeship. >>

Level 2 NDT Operator Apprenticeship Standard

Delivery Model

	Induction	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14
Off the job training led by STUK/NDT school	Issue of BINDT log book & record supplement. Select chosen NDT Methods	H&S workshop presentation, risk assessment activity, observation, effective teamworking presentation (behaviours and Belbin exercise). IEA understanding. Action plan	NDT training visit 1. Method 1 overview. Method 1 basic principles	Workplace organisation (5s) presentation, 5s audit & observation, visual management presentation, progress review	NDT Training visit 2. Method 1 equipment, flaw detection & techniques	Kaizen workshop presentation, 8 wastes, VA & NVA work, lean exercise, problem solving presentation, Ishikawa & 5 Why's root cause analysis	NDT training visit 3. Method 1 control of test parameters & interpretation of output. Progress review	Facilitate QCD projects workshop. A3 report/PDCA	NDT training visit 4. Flaw classification & evaluation, product technology, Method review. Conduct. Formal NDT training & Exams at ATO	Facilitate QCD projects workshop. A3 report/PDCA & progress review	Facilitate QCD projects workshop. A3 reports signed off. Identify a suitable EPA NDT project & action plan	Facilitate NDT project. Problem solving & potential solutions. Complete IEA L2 online exam	Facilitate NDT project & analyse results. Further improvements. Obtain authorisation. Progress review.	Review EPA criteria, factoring in key elements. Mock EPA & presentation	Review criteria for EPA, factoring in key elements
Expected hours	3	5	5	5	5	5	5	5	45 – 125	5	5	5	5	5	5
Self study (Apprentice)	Populate BINDT log book	Issue health and safety and effective teamworking workbooks (UPK) and IEA Section 1 on H&S in an industrial environment	NDT test paper covering the above modules	Issue workplace organisation & visual management workbooks (UPK) and IEA Section 2 on how to communicate in an industrial environment	NDT test paper covering the above modules	Issue Kaizen continuous improvement & problem solving workbooks (UPK) and IEA Section 3 on working effectively in an industrial environment	NDT test paper covering the above modules	QCD action planning. Current situation, data collection and root cause analysis. IEA Section 4 on working relationships in an industrial environment	NDT test paper covering the above modules. Revise course notes for exam	QCD action planning. PDCA. Trial and evaluate solutions. Adopt solutions. IEA Section 5 on rights & responsibilities in an industrial environment	QCD A3 reports finalised. Monitoring results. Develop NDT project & set SMART targets	Develop NDT project. Consider impact on all aspects	Communicate results internally & externally	Complete portfolio, documentation, project and prepare for presentation	Complete portfolio, documentation, project and prepare for EPA
Expected hours	6	12	4	12	4	12	4	8	4	8	8	8	4	8	4
Off the job learning & application (Apprentice)	Enrolment paperwork, initial assessment, intro to qualification.	Health & safety/ teamwork underpinning knowledge & IEA. Risk assessment findings/SWOT analysis, action plans	Begin supervised experience in Method 1	Workplace organisation & visual management underpinning knowledge. Photograph current situation & complete VM audit. IEA	Continue supervised experience in Method 1	Kaizen underpinning knowledge, data collection (Muda)/ problem solving cause & effect	Review supervised experience in Method 1	QCD project justification meeting. Possible countermeasures evaluation.	Complete and document supervised experience in NDT Method. Attend formal training course	QCD projects. Obtain authorisation to implement agreed action	Develop NDT project to factor in behaviours and all NDT Methods	Review existing procedures & amend as appropriate for trial. Obtain approval.	Close off project & implement. Monitor results. Inform Independent Assessment Organisation	Prepare for EPA	EPA
Expected hours	0	4	2	4	2	4	2	4	2	4	4	4	6	6	2
Employer / Apprentice	Employer mentoring, learner support (agreed actions). Discuss creation of a Gantt chart & registration with BINDT.	Employer mentoring, learner support (practical demo & supervised experience)	Employer mentoring, learner support (practical demo & supervised experience). Log actual and cumulative exp. hours (160) (320)	Employer review & mentoring, carry out review and support agreed actions. Log actual and cumulative exp. hours (160) (320)	Employer mentoring, learner support (agreed actions). Log actual and cumulative exp. hours (240) (480)	Employer mentoring, learner support (agreed actions). Log actual and cumulative exp. hours (320) (740)	Employer review. Agree dates and venue of formal training/exam (400) (900)	Employer mentoring, learner support (agreed actions). Log actual and cumulative exp. hours (480) (1060)	Facilitate course attendance. Log total Method hours *33% Red applied (480) (1200)	Employer review & mentoring, learner support (agreed actions) and overcoming any barriers faced. Log NDT hours	Employer mentoring, learner support (agreed actions). Log NDT hours	Employer mentoring, learner support (agreed actions). Log NDT hours	Employer review & mentoring, learner support (agreed actions). Log NDT hours	Employer mentoring, learner support (agreed actions). Log NDT hours	Employer mentoring, learner support (agreed actions). Log NDT hours
Expected hours	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hours	13	25	15	25	15	25	15	21	55 – 135	21	21	21	19	23	15