Eligibility

It is advisable for apprentices to have a minimum of three GCSEs (or equivalent) at grade C or above, including English and maths. Apprentice UKs without level 2 English and maths will need to achieve this level prior to taking the end point assessment. There is also a requirement to have good auditory or unaided eyesight to satisfy the mandatory NDT eyesight test, and to have appropriate physical fitness in order to operate in industrial environments.

Requirements: Knowledge, Skills and Behaviours

Skills Training UK

* New Apprenticeship Standard

Skills Training UK

Below are the required knowledge, skills and behaviours in order to operate in industrial environments.

**Knowledge:**

- Relevant mathematics, including numerical and data analysis
- Formula-based engineering and the scientific principles
- How to use materials, equipment, tools, processes and products relating to NDT
- Preparation of NDT Procedures, Technique Sheets and Work Instructions for use by NDT Operators
- The limitations of standard tests and measurements
- Industry-specific product technology, e.g. material types, defect types
- How to use the results of engineering NDT analysis
- Health & Safety and company-specific requirements
- The consequences of failure and the risk to life and the environment

**Skills and Practical Application**

- NDT in three methods, including at least one complex method (mandatory) and a choice of two other methods from the following:
  - Ultrasonic Testing – complex
  - Radiographic Testing – complex
  - Eddy Current Testing – complex
  - Infrared Thermography Testing – complex
  - Magnetic Particle Testing
  - Penetrant Testing
  - Visual Testing
  - Apply appropriate solutions to well-defined engineering problems
  - Select appropriate methods and techniques and understand their limitations

Skills Training UK

Please contact us to arrange an introductory meeting
Freephone: 0800 612 6224
Email: apprenticeships@skillstraininguk.com
Skills Training UK

**Training in a different class**

Training in a different class

**Behaviour**

- Leadership – including motivating people
- Teamwork – manage a team and to support others
- Courage – willing to make independent decisions
- Delivery – consistently manage activities and tasks through to timely completion
- Flexiblity – for the abilities of others, particularly those working under your direction
- Ethical – to act with integrity, honesty and integrity

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 works place at least once per month in order to support their learning and development. They will also be supported between visits by on-site information, 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.

**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:

- Portfolio of Evidence – for example certificates of competence, letters of approval, training attendance certificates, log books and employer reports
- Product Showcases – a presentation of the NDT project to demonstrate required knowledge and skills.
- Synoptic Assessment Interview – the interview panel will include two Engineering Council registrants knowledgeable in NDT and appointed by the independent assessment organisation. The interview will enable the apprentice to demonstrate the knowledge, skills and behaviours demonstrated in the Standard.
- The independent assessment organisation will decide whether the apprentice has reached the required standards and if so, whether to award a pass or distinction.

Qualifications / NDT Certification

Apprentices are required to achieve industry-recognised NDT Level 2 certification in three methods in accordance with national and international standards.

**Occupational Profile**

NDT uses various methods, such as ultrasonic, radiographic and infrared thermography, to detect cracks and other imperfections in manufactured components, including those that have been in service for a period of time. The results of inspections are taken at face value and, therefore, specialists rely on NDT operators to decide whether to operate, repair or replace a component. The importance of the role of the NDT Engineering Technician cannot therefore, be overstated. The NDT Engineering Technician will be able to work in specific industries, such as aerospace, motorsport, power generation and distribution, manufacturing, railways, oil & gas (on- and offshore), marine and construction.

**Skills Training UK**

This apprenticeship is for an NDT Engineering Technician. Its role is to support the technical and operational responsibilities of NDT Operators and other staff within the organisation.

**Duration**

The duration of this apprenticeship is typically 36 months and an independent End Point Assessment must be completed at the end in order to pass.

**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 part reviews of the learners 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 training and challenging activities can be built in.

Skills Training UK

For further information about Skills Training UK and how we can create a tailored Apprenticeship training programme for your business, email apprenticeships@skillstraininguk.com or Freephone 0800 612 6224

[www.skillstraininguk.com](http://www.skillstraininguk.com)
## Level 3 NDT Engineering Technician Apprenticeship Standard

### Delivery Model

| Organisation | 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 | Month 15 | Month 16 | Month 17 | Month 18 | Month 19 | Month 20 | Month 21 | Month 22 | Month 23 | Month 24 | Month 25 | Month 26 | Month 27 | Month 28 | Month 29 | Month 30 |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Off the job training led by STUK/NDT school (Apprentice) | Issue EPA | Effective training materials | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test |
| Expected hours | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Expected hours | 6 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 |
| Off the job learning & application (Apprentice) | Issue EPA | Effective learning materials | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test | Pre-test |
| Expected hours | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

### Total hours per month

| 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 | Month 15 | Month 16 | Month 17 | Month 18 | Month 19 | Month 20 | Month 21 | Month 22 | Month 23 | Month 24 | Month 25 | Month 26 | Month 27 | Month 28 | Month 29 | Month 30 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|

**Demonstrated work experience hours (per month required to meet Standard):**

| 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 | Month 15 | Month 16 | Month 17 | Month 18 | Month 19 | Month 20 | Month 21 | Month 22 | Month 23 | Month 24 | Month 25 | Month 26 | Month 27 | Month 28 | Month 29 | Month 30 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|