

What skills are required for Non Destructive Testing?

Non Destructive Testing involves testing materials like welded pipework, components and storage vessels to detect any flaws without harming the material. There are various testing methods such as Radiographic, Ultrasonic, Liquid Penetrant and Magnetic Particle Techniques.

ECITB have two options available to train NDT Learners –

- Option 1** Off-the-job training in an approved training centre using Off-the-Job Training Units and then returning to site for work experience using the On-the-Job Performance Units.
- Option 2** You deliver on-the-job training at your site using On-the-Job Training Units and On-the-Job Performance Units to gain work experience.

OFF-THE-JOB TRAINING UNITS

CO1	Contribute to effective working relationships
CO2	Work safely, minimize and comply with emergency procedures
CO3	Identify and deal with hazards in the work environment
NDT1	Prepare work area for NDT activities
NDT2	Prepare materials required for NDT activities
NDT3	Prepare equipment and consumables required for NDT activities
NDT4	Reinstate the work area after completing NDT activities
NDT5	Store NDT equipment and consumables for further use
NDT6	Inspect engineering components and plant for discontinuity using NDT techniques
NDT7	Deal with variations and defects in engineering products or equipment identified using NDT techniques
NDT8	Review an engineering activity to determine the NDT requirements
NDT9	Specify the NDT requirements for the engineering activity
NDT10	Determine technical requirements to achieve NDT objectives
NDT11	Determine resource requirements to achieve NDT objectives

ECITB recommend that a new NDT learner in the Off-the-Job Training Centre undertake all Off-the-Job Training Units.

ON-THE-JOB TRAINING AND PERFORMANCE UNITS

NDTS1	NDTS2	NDTS3	NDTS4
NDTS5	NDTS6	NDTS7	NDTS8

The On-the-Job Units are shown overleaf mapped against the N/SVQ Units to outline which On-the-Job Units can contribute to the achievement of the NDT N/SVQ Level 3.

FUNDING DETAILS (ECITB financial assistance to levy paying companies)

The following grants are available for learners who have not yet attained craft status (N/SVQ Level 3):

N/SVQ completion grant	£6,000
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EXISTING CRAFTSPERSONS

Any of the On-the-Job Performance units may be used for skill enhancement of existing craftspersons. Under such circumstances a grant of £200 per unit will be paid for up to any 5 satisfactorily completed units.

ON-THE-JOB PERFORMANCE UNITS NDTs UNIT TO NDT N/SVQ UNIT MAPPING TO SHOW WHICH NDTs UNITS CAN PROVIDE EVIDENCE TO SUPPORT THE N/SVQ IN NDT

N/SVQ NDT	1	2	3	4	5	6	7	8	9	10	11
TECSkills On-the-Job Unit											
NDTS1 Non Destructive Testing Using Magnetic Particle Techniques	✓	✓	✓	✓	✓	✓	✓			✓	✓
NDTS2 Non Destructive Testing Using Liquid Penetrant Testing	✓	✓	✓	✓	✓	✓	✓			✓	✓
NDTS3 Non Destructive Testing Using Eddy Current Techniques	✓	✓	✓	✓	✓	✓	✓			✓	✓
NDTS4 Non Destructive Testing Using Ultrasonic Techniques	✓	✓	✓	✓	✓	✓	✓			✓	✓
NDTS5 Radiological Protection and Safety						✓✓✓✓					
NDTS6 Non Destructive Testing Using Radiographic Techniques	✓	✓	✓	✓	✓	✓	✓			✓	✓
NDTS7 Visually Inspecting Components for External Defects	✓	✓	✓	✓	✓	✓	✓			✓	✓
NDTS8 Review an Engineering Activity to Determine NDT Requirements and Specify the NDT requirement for the Activity								✓	✓		

When there are multiple ticks in a box this indicates that the OJE Unit has different Elements that meet the N/SVQ Unit requirement.

Common Units CO1, CO2 and CO3 only have Off-the-Job Units, which are mandatory units for the N/SVQ Non Destructive Testing Level 3.

NVQ Level 3 Requirement is made up of 12 NVQ Units (10 Mandatory Units and 2 Technical Option Units)

Mandatory Units CO 1, 2, 3, NDT 1, 2, 3, 4, 5, 6, 7

Technical Option Units Any 2 units from NDT 8, 9, 10, 11.

Additional Guidance:

1. Candidates proposing to follow a Head Office career path would be advised to take Technical Option units NDT8 and NDT9
2. Candidates proposing to follow a Site career path would be advised to take Technical Option units NDT10 and NDT11