

Engineering Technical Support Level 3

NVQ: 100/4766/9

SVQ: G7L923

The candidate is required to complete the three mandatory assessment routes, plus the required number of assessment routes from their choice of pathway.

Mandatory Assessment Routes

EAL Assessment Route Code		QCA Code
ETS3/001	■ Complying with statutory regulations and organisational safety requirements	D/102/3926
ETS3/002	■ Using and interpreting engineering data and documentation	H/102/3927
ETS3/003	■ Working efficiently and effectively in engineering	K/102/3928

Pathway choices overleaf.



Pathway TSA: Engineering Drawing

Scheme Number/Pathway NVQ: 100/4766/9TSA SVQ: G7L923TSA

The candidate is required to complete all three mandatory assessment routes, plus one assessment route from the choice given below:

EAL Assessment Route Code		QCA Code
ETS3/004	■ Producing mechanical engineering drawings using computer aided techniques	A/102/8552
ETS3/005	■ Producing engineering drawings/models using 3D computer aided techniques	F/102/8553
ETS3/006	■ Producing electrical engineering drawings using computer aided techniques	J/102/8554
ETS3/007	■ Producing electronic engineering drawings using computer aided techniques	L/102/8555
ETS3/008	■ Producing fabrication/structural engineering drawings using computer aided techniques	R/102/8556
ETS3/009	■ Producing fluid power engineering drawings using computer aided techniques	Y/102/8557
ETS3/010	■ Producing engineering systems/services drawings using computer aided techniques	D/102/8558

Pathway TSB: Quality Control

Scheme Number/Pathway NVQ: 100/4766/9TSB SVQ: G7L923TSB

The candidate is required to complete all three mandatory assessment routes, plus one assessment route from the choice given below:

EAL Assessment Route Code		QCA Code
ETS3/011	■ Inspecting mechanical products	H/102/8559
ETS3/012	■ Inspecting components using co-ordinate measuring machines (CMM)	Y/102/8560
ETS3/013	■ Inspecting fabricated components and structures	D/102/8561
ETS3/014	■ Carrying out visual inspection of welded fabrications	H/102/8562
ETS3/015	■ Inspecting and testing electrical products	K/102/8563
ETS3/016	■ Inspecting and testing electronic products	M/102/8564
ETS3/017	■ Checking and calibrating mechanical inspection equipment	T/102/8565
ETS3/018	■ Checking and calibrating electrical and electronic test equipment	A/102/8566
ETS3/019	■ Checking and calibrating process control instrumentation	F/102/8567

Pathway TSC: Non-Destructive Testing

Scheme Number/Pathway NVQ: 100/4766/9TSC SVQ: G7L923TSC

All three mandatory assessment routes, plus either one pair of assessment routes from Group A or two assessment routes from Group B:

Group A

EAL Assessment Route Code		QCA Code
ETS3/024	■ Preparing ultrasonic flaw detection equipment for testing activities	D/102/7085
ETS3/025	■ Inspecting engineering products using ultrasonic testing techniques	L/102/8572
ETS3/026	■ Preparing work areas for radiographic testing activities	R/102/8573
ETS3/027	■ Carrying out radiographic testing activities	Y/102/8574

Or two from Group B:

Group B

ETS3/020	■ Determining technical requirements for non-destructive testing	J/102/8568
ETS3/021	■ Specifying non-destructive testing instructions for inspection activities	L/102/8569
ETS3/022	■ Inspecting engineering products by penetrant flaw detection techniques	F/102/8570
ETS3/023	■ Inspecting engineering products by magnetic particle testing	J/102/8571
ETS3/028	■ Analysing and interpreting the results of radiographic tests	D/102/8575

Pathway TSD: Computer Control Programming

Scheme Number/Pathway NVQ: 100/4766/9TSD SVQ: G7L923TSD

All three mandatory assessment routes, plus one assessment route from Group A and one from Group B:

Group A

EAL Assessment
Route Code

QCA Code

ETS3/029	■ Providing operational support for computer control programs	H/102/8576
ETS3/030	■ Loading and proving computer control programs	K/102/8577

Plus one from Group B:

Group B

ETS3/031	■ Producing operating programs for co-ordinate measuring machines (CMM)	M/102/8578
ETS3/032	■ Producing off-line programs for programmable logic controller equipment	T/102/8579
ETS3/033	■ Producing operating programs for industrial robots	K/102/8580
ETS3/034	■ Producing off-line programs for NC/CNC laser profiling machines	M/102/8581
ETS3/035	■ Producing off-line programs for NC/CNC fabrication machines	T/102/8582
ETS3/036	■ Producing off-line programs for NC/CNC turning machines	A/102/8583
ETS3/037	■ Producing off-line programs for NC/CNC milling machines	F/102/8584
ETS3/038	■ Producing off-line programs for NC/CNC grinding machines	J/102/8585
ETS3/039	■ Producing off-line programs for NC/CNC gear cutting machines	L/102/8586
ETS3/040	■ Producing off-line programs for NC/CNC electro-discharge machining	R/102/8587
ETS3/041	■ Producing off-line programs for NC/CNC boring machines	Y/102/8588
ETS3/042	■ Producing off-line programs for NC/CNC machining centres	D/102/8589

Pathway TSE: Technical Services

Scheme Number/Pathway NVQ: 100/4766/9TSE SVQ: G7L923TSE

The candidate is required to complete all three mandatory assessment routes and all of Group A, plus a further three assessment routes, where one must be from Group B. The remaining two assessment routes can be completed from either Group B or Group C.

Group A

EAL Assessment Route Code		QCA Code
ETS3/043	■ Resolving engineering problems	F/103/8645

Plus a minimum of one assessment route to a maximum of three assessment routes from Group B:

Group B

EAL Assessment Route Code		QCA Code
ETS3/044	■ Planning engineering activities	J/103/8646
ETS3/045	■ Implementing engineering activities	L/103/8647
ETS3/046	■ Monitoring engineering activities	R/103/8648
ETS3/047	■ Producing technical information for engineering activities	Y/103/8649
ETS3/048	■ Obtaining resources for engineering activities	L/103/8650
ETS3/049	■ Obtaining and controlling materials for engineering activities	R/103/8651
ETS3/050	■ Providing technical sales and marketing support for engineering activities	Y/103/8652
ETS3/051	■ Implementing quality control systems and procedures in an engineering environment	D/103/8653
ETS3/052	■ Scheduling engineering activities	H/103/8654
ETS3/053	■ Determining engineering requirements for the supply of products or services	K/103/8655

Pathways continued on page 7.

ETS3/054	■ Carrying out condition monitoring of engineering plant and equipment	M/103/8656
----------	--	------------

ETS3/055	■ Carrying out fault diagnosis on engineering plant and equipment	T/103/8657
----------	---	------------

Unless the pathway requirements have already been fulfilled in Group B up to a maximum of two assessment routes must be completed from Group C:

Group C

EAL Assessment
Route Code

QCA Code

ETS3/056	■ Providing technical advice and guidance on engineering activities	A/103/8658
----------	---	------------

ETS3/057	■ Carrying out project management of engineering activities	F/103/8659
----------	---	------------

ETS3/058	■ Developing and maintaining effective customer relationships	T/103/8660
----------	---	------------

ETS3/059	■ Handing over and exchanging responsibility for control of engineering activities	A/103/8661
----------	--	------------

ETS3/060	■ Carrying out health and safety risk assessments on engineering activities	F/103/8662
----------	---	------------

ETS3/061	■ Producing contractual agreements to supply or procure goods or services for engineering activities	J/103/8663
----------	--	------------
