



Level 3 NVQ Certificate In Rail Engineering Traction and Rolling Stock (QCF)



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Qualification Specification

Overview

This qualification is a National Vocational Qualification (NVQ). It involves the skills and knowledge needed for working in the maintenance of railway engineering traction and rolling stock. NVQs are based on national occupational standards, which the learner must meet to be competent in a particular task.

Typical Job

Maintenance engineer of railway traction and rolling stock.

Qualification code:	601/0159/3
Level:	3
Total qualification time:	TBC
Guided learning hours:	163 (min) 203 (max)
Credits:	32
Minimum age	16

Purpose of the qualification

What does this qualification cover?

The skills and knowledge in one or more of a wide variety of railway engineering traction and rolling stock activities including:

- removing and replacing traction and rolling stock components
- diagnosing faults in traction and rolling stock assets and ancillary systems
- planning traction and rolling stock activities
- installing and testing traction and rolling stock assets and components.

This qualification is for:

- Individuals who need recognition of their competence in railway engineering traction and rolling stock activities and also need a nationally recognised qualification at Level 3. This NVQ certificate is intended to support learners whose work activities may not provide sufficient range to complete the unit requirements of a Diploma but will allow a Certificate to be completed and progression to a Diploma when sufficient assessment opportunities are available.
- Learners who are undertaking a SEMTA apprenticeship and wish to progress onto an advanced apprenticeship.
- Those who are working in a railway engineering traction and rolling stock environment.
- and would like to work towards a relevant Level 3 qualification
- Those who are new to railway engineering traction and rolling stock but are looking for a career change and wish to develop new skills within the industry.

Who supports this qualification?

The qualification is supported by The National Skills Academy for Railway Engineering (NSARE).

What could this qualification lead to?

On completion of this qualification it can form part of an Apprenticeship framework at level 3, and provide a base for other level 3 qualifications, and progression to a range of level 4 qualifications and also employment.

Entry Requirements

Learners must have the potential to achieve the assessment criteria set out in the units.

How is the qualification achieved?

The learner must present evidence (portfolio) which clearly shows they have met the assessment criteria and learning outcomes. The learner must achieve the mandatory and optional units relevant to their pathway (occupational role).

What will be assessed?

All evidence submitted by the learner against the assessment criteria.

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How will it be assessed?

Evidence for this qualification will be assessed in accordance with the sector assessment strategy, which has been created from engagement with stakeholders (employers etc.) in the rail sector.

Structure

To achieve the qualification learners must obtain a total of 32 credits. 20 credits from the Mandatory group and a further minimum of 2 credits from the optional group A and a minimum of 10 credits from the optional group B.

Mandatory assessment routes: All must be completed to achieve 20 credits

EAL code	Assessment route title	Level	Credit value	Guided learning hours	OfQual code
QTRS3-001	Prepare to Undertake Duties in the Rail Industry	2	2	18	F/601/7815
QTRS3-002	Contribute to the Security of the Work Environment in the Rail Industry	2	1	5	L/502/65074
QTRS3-003	Obtain and Communicate Information in the Rail Industry	2	5	40	Y/601/7819
QTRS3-004	Identify and Assess Defects and Discrepancies in Railway Traction and Rolling Stock Assets	3	9	44	K/502/7521
QTRS3-005	Establish Compliance with Railway Traction and Rolling Stock Specifications	3	3	12	T/502/7523

Group A: A minimum of 2 credits must be achieved from this group.

QTRS3-006	Plan for Further Professional Development in the Rail Industry	3	2	4	K/601/7825
QTRS3-007	Work with Tools, Equipment, Drawings and Specifications in the Rail Engineering Environment	2	3	10	J/502/6506
QTRS3-008	Support Learners by Coaching in the Workplace	3	4	26	L/502/6118
QTRS3-009	Contribute to Safe Working Practices in the Rail Engineering Industry	2	3	10	F/502/6505

Group B: A minimum of 10 credits must be achieved from this group

QTRS3-010	Accept and Return Responsibility for the Control of Railway Traction and Rolling Stock Assets	3	3	10	D/502/7533
QTRS3-011	Allocate and Supervise Railway Traction and Rolling Stock Resources	3	4	14	L/502/7527
QTRS3-012	Diagnose Faults in Ancillary Systems on Railway Traction and Rolling Stock	3	8	28	R/502/7531
QTRS3-013	Diagnose Faults in Railway Traction and Rolling Stock Assets	3	8	28	F/502/7525
QTRS3-014	Install and Test Railway Traction and Rolling Stock Assets and Components	3	4	20	Y/502/7532
QTRS3-015	Plan Railway Traction and Rolling Stock Engineering Activities	3	9	30	J/502/7526
QTRS3-016	Provide Operational Support to Users of Railway Traction and Rolling Stock Assets	3	5	28	H/502/7534
QTRS3-017	Supervise the Movement of Traction and Rolling Stock Assets, Components and Equipment	2	2	12	Y/502/7529
QTRS3-018	Undertake the Removal and Replacement of Railway Traction and Rolling Stock Components	2	4	20	D/502/7516
Additional unit (This unit will not count towards the total credit required but is available if required)					
QTRS3-019	Employment Rights and Responsibilities in the Passenger Transport Sector	2	3	18	L/602/5934

