



Level 3 NVQ Diploma In Rail Engineering Signalling Maintainer and Fault Finder (QCF)



Qualification Specification

Overview

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

Typical Job

Carrying out routine maintenance on the Signalling Infrastructure and working to identify and resolve faults in the systems.

Qualification code:	601/0246/9
Level:	3
Total qualification time:	420
Guided learning hours:	212
Credits:	42
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 signal maintenance and fault finding activities including:

- determining safe access to work locations
- removing and replacing components from signalling assets
- planning signal maintenance testing activities
- diagnosing faults in signalling assets.

This qualification is for:

- Individuals who need recognition of their competence in railway engineering signal maintenance and fault finding and also need a nationally recognised qualification at Level 3
- Learners who are undertaking a SEMTA apprenticeship and wish to progress onto an advanced apprenticeship
- Those who are working in a railway engineering signal maintenance and fault finding environment and would like to work towards a relevant Level 3 qualification
- Those who are new to railway engineering signal maintenance and fault finding 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 relevant units.

What will be assessed?

All evidence submitted by the learner against the assessment criteria.

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

The learner is required to complete all the mandatory assessment routes.

Mandatory assessment routes: All must be completed

EAL code	Assessment route title	Level	Credit value	Guided learning hours	OfQual code
QRSM3-001	Reinstate the Work Area after Signal Engineering Activities	2	2	4	A/503/0603
QRSM3-002	Contribute to Technical Leadership of Signal Engineering Activities	3	2	4	F/503/0733
QRSM3-003	Carry Out Replacement of Components from Signalling Assets	3	4	17	J/503/0720
QRSM3-004	Organise Local Signal Engineering Activities	3	2	4	J/503/0734
QRSM3-005	Plan Signal Maintenance Testing Activities	3	3	25	K/503/0600
QRSM3-006	Maintenance of Signalling Assets using complex processes	3	4	25	K/503/0614
QRSM3-007	Diagnose Faults in Signalling Assets	3	6	31	K/503/0726
QRSM3-008	Establish information for signal engineering maintenance or fault finding	2	2	17	L/503/0587
QRSM3-009	Adjust Signalling Components and Equipment to Meet Operational Requirements	3	4	34	L/503/0718
QRSM3-010	Transfer Responsibility of Signalling Assets	3	2	4	M/503/0730
QRSM3-011	Carry Out Removal of Components from Signalling Assets	3	4	13	R/503/0719

Continued...



QRSM3-012	Allocate and Monitor Resources for Signal Engineering Activities	3	2	10	T/503/0602
QRSM3-013	Plan for further professional development in the rail industry	3	2	4	K/601/7825
QRSM3-014	Determine Requirements for the Safe Access to Work Locations for Signal Engineering	2	3	20	M/503/0601

Additional unit (This unit will not count towards the total credit required but is available if required)

QRSM3-015	Employment Rights and Responsibilities in the Passenger Transport Sector	2	3	18	L/602/5934
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