



EAL Level 2 Diploma in Rail Engineering Operative Competence

Qualification specification

Overview

This competence qualification has been developed by the Rail Engineering Employers Trailblazer group and as such is intended to provide the means to record the competency aspect of the Level 2 Rail Engineering Operative Apprenticeship.

In order to articulate the specific level of skills, knowledge and behaviours required to demonstrate full occupational competence in the Apprenticeship, the employers in the Rail Engineering Apprenticeship Trailblazer group have developed a set of standards that this qualification represents.

Qualification code:	603/1295/6
Level:	2
GLH	360 hours
TQT:	360 hours
Minimum learning age:	16

Purpose of the qualification

What is this qualification?

This competence qualification has been developed by the Rail Engineering Employers Trailblazer group and as such is intended to provide the means to record the competency aspect of the Level 2 Rail Engineering Operative Apprenticeship.

In order to articulate the level of skills, knowledge and behaviours that are required to demonstrate full occupational competence in the Apprenticeship, the employers in the Rail Engineering Apprenticeship the Trailblazer group have developed an Apprenticeship Standard and an accompanying Assessment Plan, both documents can be downloaded from the Government website for 'Apprenticeship Standards'

What does this qualification cover?

The content of this qualification covers the competency requirements of the Level 2 Rail Engineering Operative required by an Apprentice working or wishing to progress in Rail Engineering. This qualification is assessed by the apprentice gathering evidence in the workplace to support the recording of their competence. This qualification has six pathways, track, OLC, electrification, signalling, telecoms and traction and rolling stock and the learner can choose the pathway that suits their workplace and employer needs.

Who is this qualification for?

This qualification is aimed at apprentices in the rail engineering industry who need to demonstrate their competence to enable progression within their workplace and careers, they could be learners who may have limited prior experience in rail engineering but have the ability to achieve a level 2 qualification, for example:

- Apprentices that are recent school Leavers, and are starting a career in the rail engineering; this qualification provides the knowledge aspect of the Level 2 Rail Engineering Operative Apprenticeships Standard and can be attempted once the employer deems it appropriate to do so.
- Up skilling of career changers who have may existing technical engineering competence and need this to be recognised in a qualification.

Centres are advised to consider, during delivery and assessment of the qualifications, the support, guidance and opportunities they will need to give learners to enable them to meet the demands of the units.

Who supports the qualification?

This qualification:

- The Qualification is regulated at level two,
- Is approved by the Rail Engineering Employer Group as meeting the competence requirement of the Level 2 Rail Engineering Operative Apprentice Standard.

What could this qualification lead to?

Typical job roles include:

Typical jobs include:

- Rail engineering operative in one of the following areas; track, OLC, electrification, signalling, telecoms and traction and rolling stock.
- The qualification also supports progression onto a technician apprenticeship in engineering.

Entry requirements

There are no entry requirements to undertake the units of competence unless this is a legal requirement of the process or the environment. Assessment is open to any learner who has the potential to achieve the assessment criteria set out in the units. Aids or appliances, which are designed to alleviate disability, may be used during assessment, providing they do not compromise the standard required.

How is the qualification achieved?

This qualification is gained when all mandated units have been achieved. The centre will then be able to apply for the learner's final Certificate. The learner will also receive a Certificate of Unit Credit, listing all the units they have achieved.

However if they don't manage to complete the full qualification learners can still claim a Certificate of Unit Credit for the units achieved therefore, they still have proof of their ability and could complete the qualification at a later date.

Units can also be taken individually (stand alone). The qualification manual must be used in conjunction with the delivery and assessment of any individual units to ensure that assessment requirements and methodologies are consistently applied.

What will be assessed?

This qualification is assessed by the apprentice gathering workplace based evidence of their competence against the unit content and building a portfolio of evidence the progresses through the qualification.

Grading criteria

This qualification is not graded and is marked either pass or refer.

How will it be assessed?

The qualification is assessed by an assessor who validates the portfolio evidence and supports with assessor workplace observation and questioning. The assessor and the apprentice also agree an assessment plan of what will be done and when.

Structure

This qualification can be obtained by completing **one** of the following pathways. The learner is required to complete the **mandatory units**, and the **units from their chosen pathway**. The qualification has **360 hours of guided learning (GL)** including a formal induction and has a **total qualification time of 360 hours**.

Mandatory assessment routes: All three units must be completed for all pathways

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/001	Complying with statutory regulations and organisational safety requirements	100	T/615/6081
REOC/002	Using and interpreting engineering data and documentation	50	A/615/6082
REOC/003	Working efficiently and effectively as a rail engineering operative	50	F/615/6083

Pathway ROCA - Track: In addition to the three mandatory units, all units below must be completed:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/004	Restore rail switches and crossings to operational condition	50	J/615/6084
REOC/005	Restore track geometry faults to operational condition by the manual repair of permanent way assets and components	30	L/615/6085
REOC/006	Restore plain line track geometry to operational condition	50	R/615/6086
REOC/007	Undertake replacement of permanent way assets and components	40	Y/615/6087

Pathway ROCB – Overhead line: In addition to the three mandatory units, pathway units must be completed as detailed below:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/008	Access overhead line equipment construction sites	40	D/615/6088

Plus at least three units from REOC-009, 010, 011, 012 and 013:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/009	Undertake overhead line equipment main steelwork installation under direction	40	H/615/6089
REOC/010	Undertake overhead line equipment small part steelwork installation under direction	40	Y/615/6090
REOC/011	Undertake overhead line equipment wiring installation under direction	40	D/615/6091
REOC/012	Undertake installation of overhead line equipment sectioning, insulation, registration and in-span components under direction	40	H/615/6092
REOC/013	Undertake installation, enhancement and renewal of overhead line equipment earthing and bonding under direction	40	K/615/6093

Structure

Pathway ROCC - Signalling: In addition to the three mandatory units, pathway units must be completed as detailed below:

Unit REOC-014 must be completed:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/014	Determine requirements for the safe access to work locations for signal engineering	30	M/615/6094

Plus at least one from Units REOC-015 and 016:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/015	Establish information for signal engineering installation	30	T/615/6095
REOC/016	Establish information for signal engineering maintenance and/or fault finding	30	A/615/6096

Plus at least one from Units REOC-017, 018 and 019:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/017	Assist with tests and checks of signalling equipment	30	F/615/6097
REOC/018	Installation of signalling equipment using non complex processes	30	J/615/6098
REOC/019	Maintenance of signalling equipment using non-complex processes	30	L/615/6099

Plus all units REOC-020 to 022 inclusive:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/020	Assist in the removal of signalling equipment	30	T/615/6100
REOC/021	Assist in the replacement of signalling equipment	30	A/615/6101
REOC/022	Reinstate the work area after signal engineering activities	30	F/615/6102

Structure

Pathway ROCD - Telecoms: In addition to the three mandatory units, pathway units must be completed as detailed below:

Unit REOC-023 must be completed:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/023	Determine requirements for the safe access to work locations for telecoms engineering	30	J/615/6103

Plus at least one from units REOC-024 and 025:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/024	Establish information for telecoms engineering maintenance and/or fault finding	30	L/615/6104
REOC/025	Establish information for telecoms engineering installation	30	R/615/6105

Plus at least one from units REOC-026, 027 and 028:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/026	Assist with tests and checks of telecoms equipment	30	Y/615/6106
REOC/027	Installation of telecoms equipment using non complex processes	30	D/615/6107
REOC/028	Maintenance of telecoms equipment using non complex processes	30	H/615/6108

Plus all units REOC-029 to 031 inclusive:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/029	Assist in the removal of telecoms equipment	30	K/615/6109
REOC/030	Assist in the replacement of telecoms equipment	30	D/615/6110
REOC/031	Reinstate the work area after telecoms engineering activities	30	H/615/6111

Structure

Pathway ROCE – Electrification: In addition to the three mandatory units, pathway units must be completed as detailed below:

Units RETC-032 to 036 inclusive:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/032	Plan railway electrification engineering activities	30	K/615/6112
REOC/033	Assist with maintenance on railway electrification equipment and components	40	M/615/6113
REOC/034	Assist in preparing resources for railway electrification engineering activities	30	T/615/6114
REOC/035	Assist in preventative and corrective maintenance of traction cabling systems	40	A/615/6115
REOC/036	Establish the operational condition of railway electrification and plant assets	40	F/615/6116

Pathway ROCF – Traction and rolling stock: In addition to the three mandatory units, pathway units must be completed as detailed below:

Unit REOC/037 must be completed:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/037	Assist in the installation of traction and rolling stock equipment	50	J/615/6117

Plus at least two from RETC-038, 039, 040 and 041:

EAL Code	Unit title	GL(hrs)	Ofqual Code
REOC/038	Carry out scheduled maintenance on traction and rolling stock mechanical equipment	60	L/615/6118
REOC/039	Carry out scheduled maintenance on traction and rolling stock electrical equipment	60	R/615/6119
REOC/040	Carry out scheduled maintenance on traction and rolling stock communications-electronic equipment	60	J/615/6120
REOC/041	Carry out scheduled maintenance on traction and rolling stock fluid power equipment	60	L/615/6121

