



EAL Level 3 Certificate in Traction and Rolling Stock Systems

Qualification specification

Overview

This qualification is intended to provide the introductory knowledge and practical skill requirements of maintaining of traction and rolling stock traction systems. It is suitable for new entrants into the industry who may need to update or convert their existing knowledge.

It is aimed at new entrants to the rail engineering industry who wish to develop their knowledge to enable progression within their workplace. They could be learners who may have a prior knowledge and understanding of associated engineering and have the ability to achieve a level 3 qualification.

Qualification code:	603/2292/5
Level:	3
Guided learning (GL)	81 hours
TQT:	91 hours
Minimum learning age:	18

Purpose of the qualification

What is this qualification?

This qualification is intended to provide the introductory knowledge and practical skill requirements of maintaining of traction and rolling stock traction systems. It is suitable for new entrants into the industry who may need to update or convert their existing knowledge.

What does this qualification cover?

The content of this qualification covers the knowledge and practical skills required to progress in traction and rolling stock engineering. It covers the different types of vehicles in fleets and the major systems and components on those vehicles.

Who is this qualification for?

This qualification is aimed at new entrants to the rail engineering industry who wish to develop their knowledge to enable progression within their workplace. They could be learners who may have a prior knowledge and understanding of associated engineering and have the ability to achieve a level 3 qualification, for example:

- Up skilling of career changers who may have existing technical engineering competence and knowledge at Level 3 and now wish to progress into traction and rolling stock systems engineering.

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

Who supports the qualification?

This qualification:

- Is accredited by OfQual at level three

What could this qualification lead to?

- Rail Engineering Traction and Rolling Stock Technicians may work on site or in a depot or in a technical office. They will lead on and carry out Rail Engineering tasks. Their work will require an understanding of how traction units and carriages work as an integrated, complex system. Traction and Rolling Stock engineers maintain equipment, process and fault find systems failures.

Entry requirements

There are no formal entry requirements for this qualification; although centres should ensure that the learners have the potential to achieve the units within this qualification. Learners must have the minimum levels of literacy and numeracy to comply with the health and safety aspects of the scheme, the completion of the learning outcomes and the external assessment.

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 the units they have achieved.

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 correctly and consistently applied.

What will be assessed?

This qualification is assessed by the completion of practical and knowledge assessments that are mapped to the requirements of the qualification.

Marking criteria

This Qualification is graded Pass, Refer

How will it be assessed?

The qualification is assessed by an assessor who validates the portfolio of completed assessments. These assessments are marked and feedback given to the apprentice

Structure

This qualification will be obtained by the learner once they have completed the specified units below.

The qualification has a Total Qualification Time (TQT) of 91 hours of which 81 are Guided Learning (GL).

Group A: Mandatory units: *All learners must complete the mandatory units:*

EAL Code	Unit title	GL(hrs)	Ofqual Code
CTRS3-001	Current collection and electrical systems	8	F/616/2143
CTRS3-002	Train systems and schematics drawings	16	J/616/2144
CTRS3-003	Train saloon heating, ventilation and air conditioning (HVAC) systems	8	L/616/2145
CTRS3-004	Train radio and cab safety systems	8	R/616/2146
CTRS3-005	Traction and rolling stock (TRS) braking systems	25	R/616/2147
CTRS3-006	Exterior and saloon door systems	16	R/616/2148

