



EAL Level 4

In Advanced Rail Engineering Technical Knowledge

Qualification specification

Overview

This Knowledge qualification has been developed by the Rail Engineering Employers Trailblazer group and as such is intended to provide the means to record the knowledge aspect of the L4 Rail Engineering Advanced Technician Apprenticeship.

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

Qualification code:	603/2089/8
Level:	4
Guided learning (GL)	480 hours
TQT:	1200 hours
Minimum learning age:	18

Purpose of the qualification

What is this qualification?

This Knowledge qualification has been developed by the Rail Engineering Employers Trailblazer group and as such is intended to provide the means to record the knowledge aspect of the Level 4 Rail Engineering Advanced Technician Apprenticeship

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

What does this qualification cover?

The content of this qualification covers the knowledge requirements of the Level 4 Rail Engineering Advanced Technician required by an Apprentice working or wishing to progress in Rail Engineering. This qualification is assessed by the apprentice achieving a series of knowledge assessments.

This qualification is a Level 4 in Advanced Rail Engineering Technical Knowledge and has a Total Qualification Time (TQT) of 1200 hours and 480 Guided Learning Hours (GL).

Who is this qualification for?

This qualification is aimed at apprentices in the rail engineering industry who need to demonstrate their knowledge to enable progression within their workplace and careers; they could be learners who may have prior experience in rail engineering and have the ability to achieve a level 4 qualification, for example:

- Apprentices that have already completed a L3 apprenticeship and are ready to move to the next level once the employer deems it appropriate to do so.
- Supporting the up skilling of career changers who have may existing technical engineering knowledge 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:

- Is accredited by OfQual at level four
- Is approved by the Rail Engineering Employer Group as meeting the knowledge requirement of the Level 4 Rail Engineering Advanced Technician Apprentice Standard.

What could this qualification lead to?

- Rail Engineering Advanced Technicians may work on site or in a depot or in a technical office. They will lead and supervise individuals and teams in the delivery of Rail Engineering tasks. Their work will require an understanding of how the railway works as an integrated, complex system in order to take proactive actions and decisions to avoid Railway asset, equipment, process and systems failures and will include involvement in aspects of rail systems

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 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 completion of knowledge assessments that are mapped to the requirements of the qualification.

Grading criteria

This Qualification is graded Pass, Merit, Distinction or Refer.

How will it be assessed?

The qualification is assessed by an assessor who validates the portfolio of completed knowledge 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. All learners have to complete a minimum of **8 units**. The qualification has a **Total Qualification Time (TQT) of 1200** hours of which **480 are Guided Learning (GL)**.

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

EAL Code	Unit title	GL(hrs)	Ofqual Code
REATK4- 001	Safe and professional working practices in the rail industry	60	L/616/0119
REATK4 - 002	Rail engineering science	60	F/616/0120
REATK4 - 003	Rail engineering solutions and innovation	60	J/616/0121
REATK4 - 004	Rail operations	60	L/616/0122
REATK4 - 005	Commercial activities within the rail industry	60	R/616/0123
REATK4 - 006	Managing a professional rail engineering project	60	Y/616/0124

Group B: Optional units: *All learners must complete 120 guided learning (GL):*

EAL Code	Unit title	GL(hrs)	Ofqual Code
REATK4 - 007	Rail engineering principles	60	D/616/0125
REATK4 - 008	Rail engineering technologies	60	H/616/0126

