

## Purpose statement

The following purpose is for the City & Guilds Level 3 Diploma in Rail Engineering Technician Knowledge **(603/0401/7)**

Area	Description
OVERVIEW	
<p>What does this qualification cover?</p>	<p>This qualification provides learners with an introduction to the Rail Engineering Industry and prepare them for further training to take their career forward as a Rail Engineering Technician.</p> <p>Learners will undertake core learning across all areas within the Rail Engineering Industry and specialise in their discipline of choice.</p> <p>The core learning common to all areas are:</p> <ul style="list-style-type: none"> <li>• Working safely in rail engineering</li> <li>• Mathematics for Engineering Technicians</li> <li>• Engineering Solutions and innovation within the rail industry.</li> </ul> <p>The main rail engineering areas in which the learners can specialised themselves on as Rail Engineering Technicians are:</p> <ul style="list-style-type: none"> <li>• Track (including minor works)</li> <li>• overhead line</li> <li>• electrification</li> <li>• signalling</li> <li>• telecommunications</li> <li>• traction &amp; rolling stock.</li> </ul> <p>There are a series of elective units that can be taken for additional learning but these are not a requirement to achieve the qualification.</p> <p>For further information on the structure and the units that must be taken, please refer to the qualification handbook at <a href="https://www.cityandguilds.com/qualifications-and-apprenticeships/transport-maintenance/railway/6497-diplomas-in-rail-engineering-knowledge#tab=documents">https://www.cityandguilds.com/qualifications-and-apprenticeships/transport-maintenance/railway/6497-diplomas-in-rail-engineering-knowledge#tab=documents</a></p>
WHAT COULD THIS QUALIFICATION LEAD TO?	
<p>Why choose this qualification over similar qualifications?</p>	<p>Currently there are no other knowledge only qualifications specific to this area of the rail industry with the same depth and breadth.</p> <p>Upon completion of this qualification learners will have developed the self-confidence and motivation to take</p>

	<p>advantage of the many opportunities for progression and development within the industry, such as:</p> <ul style="list-style-type: none"> <li>• Carrying out further training in the following areas: track renewals, track maintenance, traction and rolling stock, electrification construction, electrification maintenance and signal and telecommunications.</li> <li>• Go into employment by taking up a Rail Engineering Competence qualification as part of an Apprenticeship to become a competent Rail Engineering Technician.</li> <li>• Improve their leadership and management skills by taking higher level qualifications through the Institute of Leadership and Management.</li> </ul>
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<p>Alternatives routes to achieve the same outcome?</p>	<p>The learner could also achieve a similar level of knowledge at their workplace by taking up an Apprenticeship for Rail Engineering Technicians. However, if they do not have a work placement it would be better to start by taking up this knowledge qualification and then move on into employment.</p>
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<p>How this qualification supports the identified outcome(s)?</p>	<p>This qualification aims to enable learners to develop and practise the skills and knowledge required for employment and/or career progression within the rail engineering sector.</p>
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**WHO SUPPORTS THIS QUALIFICATION?**

<p>Employers and trade associations</p>	<p>This qualification has been developed in collaboration with the Rail Engineering Employer group which is led by organisations from the industry including: Transport for London, Network Rail, Alstom Transport Services, Amey, Babcock, Carillion, DB Schenker Rail UK, DEG Signalling, First Group, Hitachi Europe, HS2, MGB Engineering, National Express (c2c Ltd), Siemens, Signalling Solutions, Southwest Trains, Telent Technology Services Ltd, VolkerRail, National Skills Academy for Rail, Eurostar, Merseyrail and Virgin East Coast.</p>
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