Myerscough College
Opportunities for all to succeed

Apprenticeships

RAIL ENGINEERING TECHNICIAN LEVEL 3 APPRENTICESHIP

Level: Advanced Apprenticeship (Level 3)

Typical Duration: 36 Months

Delivery Model: Block Release

Delivery Location: Nationwide

Start Date: September

Introduction to the Programme

Traction & Rolling Stock. Understanding of vehicle design, construction, maintenance and operation. Working knowledge of the traction and rolling stock systems, sub systems and components which include mechanical, electrical, process controller and fluid power equipment. Systems include traction, wheel sets, brakes, train protection, air conditioning and ventilation, customer information, doors, vehicle trim and fittings Able to find, diagnose and correct faults, identify potential faults & defects within electrical circuits and maintain and renew a range of types of traction and rolling stock. Able to use a range of fastenings including crimping and torque correctly.

Duration

This apprenticeship will typically take 36 months to complete. The length may be altered if the apprentice has already gained knowledge and skills working in this sector.

Entry requirements

Employers set the selection criteria for their apprentices. Typically, this will include a minimum of 5 GCSE's at Grade 9-4, or equivalent, including English, Maths & Science.

In addition, it is desirable that the apprentice has a basic understanding of Information and Communication Technology.

Costs

Costs will be dependent on several factors such as age of apprentice and size of employer. The cost may be altered if the apprentice has already gained knowledge and skills working in this sector. Please contact us for more information.

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Delivery Location

Delivery is work-based with college attendance for 30 weeks of block release training in the first year. Students will have the option of living on campus in student accommodation included in the course cost. There will also be further weeks of block release training at the National Training Academy for Rail (NTAR) and workplace assessment over the second 2 years of the programme by NTAR staff.

Knowledge, Skills & Behaviour gained

Throughout the programme, apprentices will work towards gaining the following knowledge, skills & behaviours:

Knowledge

Have an understanding of:

- Safe and Professional working practices including legislation, regulation, industry procedures and safety requirements.
- The scientific, technical, engineering, mathematical and design principles that are required to support the maintenance, renewal and construction of The Railway.
- How to work effectively and contribute to engineering solutions and innovation including understanding and applying problem solving techniques and diagnostics, project planning and management, time management and quality management and assurance systems.
- The importance of 3rd party requirements and client confidentiality and the need to understand and adhere to corporate policies on ethics, equality and diversity
- How the railway works commercially including contractual principles and implications.

Skills

Have the ability to:

- Keep themselves and others safe by adhering to safe working practices. Understand and comply with statutory regulations and organisational safety requirements, including safe access to work locations.
- Plan a high standard of technical work: Gathering and interpreting information including drawings, plans, schedules needed for the development of rail engineering activity planning; Detailed inspection and performance & condition analysis of assets; Plan work to be undertaken including the appropriate resources.
- Deliver a high standard of technical work: Undertake engineering activities in relation to maintenance, construction / installation and or renewal of assets. Complete integrity & compliance checks on own work, instigate testing and identify where independent testing is required. Transfer responsibility of assets once work has been completed. Supervise their own work and that of others.
- Solve problems: Identify problems and apply a structured approach and appropriate methods to problem solving and diagnosis.

- Manage resources including the correct utilisation and storage of tools, materials and equipment, and the lifting and moving of materials, components and equipment.
- Communicate effectively. Use oral, written, electronic and IT based methods and systems for the accurate communication, reporting & recording of technical and other information, using correct terms, standards, templates and certifications.

Behaviours

Have the required behaviours including:

- Act professionally demonstrating dependability, determination, honesty and integrity. Respect others, act ethically and contribute to sustainable development.
- Be risk aware so as to reduce risks through systematic monitoring and checking of information, concentration on the task, and awareness of changing circumstances on activity.
- Display a self-disciplined, self-motivated, proactive approach to work, able to make independent decisions whilst knowing one's limitations and when to ask for help or to escalate.
- Work reliably and safely, often without close supervision, to approved industry standards and safe working practices.
- Work effectively and efficiently, individually and as part of a team, maintaining effective relationships with colleagues, clients, suppliers and the public.
- Receptive to feedback, willing to learn new skills and adjust to change. Identifying, carrying out and recording CPD necessary to maintain and enhance competence.
- Prepared to make a personal commitment to their employer, the industry and its professional standards.

Progression

This is a Level 3 Apprenticeship. On completion the apprentice will have satisfied the requirements for registration as an Engineering Technician by the relevant Professional Engineering Institutions.

End Point Assessment

The Rail Engineering Technician assessment plan is delivered within the 2 phases of the Apprenticeship, these being:

- On Programme Phase
- End Point Assessment and Employer Endorsement Phase

Rail Engineering apprentices will be assessed for the following:

- Technical knowledge against the standard (core and pathway specific requirements)
- Occupational competence (knowledge, behaviours and occupational competencies) against the Standard (core and pathway specific requirements)
- Professional competence (knowledge, behaviours and generic engineering competencies) against UKSPEC EngTech requirements.

In the unlikely event of an apprentice needing to resit an End Point Assessment (or elements of the End Point Assessment), then the employer will be responsible for funding these additional costs.

How to apply

In order to start the enrolment process we need an **Online Application Form** to be completed & submitted. You can do this by contacting the Employer Services Team.

Telephone: 01995 642255, Email: employerenquiries@myerscough.ac.uk

Website: www.myerscough.ac.uk