

Land-based Service Engineering Technician Level 3

Overview of the role

Providing advanced technical support and guidance across a diverse range of machines and equipment in sectors such as agriculture, horticulture, forestry and outdoor power.

LBSE Technicians typically work on site, utilising their own initiative in a customer facing role. They are often called upon to mentor and supervise junior colleagues and dispense advice to customers on machinery selection. Typically they are involved in all aspects of;

- Preparation, installation and handover of complex technologically advanced machinery, plant and equipment and the verification of its performance to the manufacturers specification and customers satisfaction
- Diagnosis and repair of complex faults in land-based machinery and equipment
- Conducting complex repairs of machinery, equipment, and their components
- Conducting inspections of machines and compilation of machinery condition reports
- Compilation of repair proposals, estimates and quotations and the implementation of timely and cost effective repairs

This requires a blend of skills, knowledge and behaviours, safe working and environmental practice capabilities covering; power units, power trains, fabrication, mechanical, electrical, electronic, hydraulic and pneumatic system applications. These will be used in the context of the machinery and equipment in the chosen industry sector. The technician will typically have an understanding of the interface between machine, its intended purpose and the working environment. The nature of the industry will present technical challenges ranging from simple mechanics to the diagnosis and repair of complex mechanical, electronic and telemetry systems. These operations may take place in the employer's workplace or on the customer's site requiring flexible working hours as dictated by seasonal requirements. Technicians may be called upon to advise customers and support work colleagues.

Entry Requirements

Employers set the selection criteria for their apprentices in line with the apprenticeship standards and their business needs. Typically this includes 4 GCSE's at Grade C or equivalent to include English, mathematics and a science subject. In addition it is desirable that the candidate has an understanding of Information and Communication Technology.

We would normally expect applicants to have level 2 English and maths qualifications (GCSE grade 4/C or above or L2 Functional Skills) prior to enrolment.

Duration

The duration of the apprenticeship is based on a skills analysis and development opportunities within the business. The typical duration for this apprenticeship is 36-48 months, however this would be reduced where an apprentice holds previous experience or a Level 2 Apprenticeship.



Apprenticeship Content

Knowledge

- The procedures used to carry out a risk assessment, identify risks and implement a plan to reduce and mitigate hazards both in the workplace and on site
- The identification, application and care of diagnostic tools and equipment used within the job role.
- How to read and interpret complex wiring and hydraulic circuit diagrams relevant to the industry sector worked within and to relate this information to logical fault finding and diagnosis
- The underpinning repair principles and practices used in the diagnosis and repair of complex technological systems, and electro-hydraulic systems
- How to record information and communicate concisely using a range of manual and electronic techniques.
- How to access and interpret technical data and the influence of operational conditions in the diagnosis and repair of current and emerging technology.
- Techniques used in logical diagnosis and verification of complex machinery, plant and equipment performance.
- How to work professionally and engage in continual professional development.

Skills

- Interpret technical data, documentation and operational conditions, and apply in line with the technician's role.
- Interpret and respect safety procedure requirements, undertake risk assessment and mitigation measures to safeguard, bystanders, the general public, property and livestock.
- To communicate with and gather information from colleagues and customers employing a range of techniques as appropriate to the audience. Demonstrate professional customer care practices as an individual and team member.
- Install and handover machinery and equipment, explaining its safe operation, maintenance and warranty requirements, verification of optimum performance and the completion of handover documentation
- Conduct advanced maintenance, and the repair of technologically advanced machinery and equipment which typically may include; power units, power trains, machinery, equipment and their components.
- Carry out diagnostics, repairs and re-instatement of complex products and verify conformity to manufacturer's specification.
- Compile technical reports, repair proposals, quotations and incident reports
- Maintain and repair complex hydraulic systems and their components as appropriate to the sector.
- Maintain, interrogate, calibrate and repair electronic equipment and systems
- Minimise machinery, plant and equipment downtime by carrying out diagnostic and preventative maintenance efficiently and effectively.



Behaviours

- Safety orientation
- Strong work ethic
- Logical approach
- Problem solving
- Quality focused
- Responsibility
- Communicator
- Team Player
- Contributor to profitability
- Adaptability
- Self-motivation
- Commitment

Employer Involvement

Your employer must enable you to spend a minimum of 20% of your usual work hours undertaking off-job learning. This is defined as learning which is undertaken outside of the normal day-to-day working environment and leads towards the achievement of the apprenticeship. This can include training that is delivered at your normal place of work but must not be delivered as part of your normal working duties, and must be directly relevant to the apprenticeship standard.

Off-job learning could include the following:

- Teaching of theory such as lectures, role playing, simulation exercises, online learning or manufacturer training
- Practical training such as shadowing experienced staff or mentoring, industry visits and attendance at competitions
- Study support and time spent writing assessments/assignments

Your employer must commit to supporting you in the workplace, participating in progress review meetings, providing use of ICT facilities so you can access your e-portfolio and agreeing/ensuring your readiness for the End Point Assessment. They may be required to provide further supporting evidence/endorsements about your performance, which form part of the End Point Assessment.

Further details of the End Point Assessment will be made available to you during your induction.

Funding

The way Apprenticeships are funded has changed – employers now pay for apprenticeship training, where fees are applicable. We will discuss this with your employer when we complete a set-up with them.

The fees charged for the apprenticeship include any awarding body registration costs, all on-programme teaching, assessment and support delivered by the college, support materials, access to college facilities such as the Learning Resource Centre, Student Moodle, and access to wider college student support services where required.

Employers must pay apprentices at least the minimum rate set out by current National Minimum Wage Legislation. This includes payment for all off-job learning and any associated costs such as travel and accommodation.

Information about the National Minimum Wage can be found at:

<https://www.gov.uk/national-minimum-wage-rates>



College Input

We will support you through regular Apprenticeship Progress Review meetings with you and your manager, provide well planned vocational training and theory delivery by block release model and support your theory learning in the workplace with a range of learning materials.

This programme is offered at York campus, and we also plan to offer this programme at Penrith subject to viable numbers.

How to Apply

Applications should be made using the college application form or via the college website. This form can be found at: <https://www.askham-bryan.ac.uk/application/register>. Upon receipt of your application you will have an interview with the Course Manager.

Further information is available at:

<https://www.instituteforapprenticeships.org/apprenticeship-standards/land-based-service-engineering-technician/>

Or, for more information, contact the College Course Manager on:

York

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