

Land-based Service Engineer

Level 2

Overview of the role

Maintaining a range of machinery, plant and equipment in one sectors such as agriculture, forestry and horticulture.

LBSE Service Engineers will typically work on the employers premises under supervision and where appropriate and safe to do so work on their own initiative. They work on a diverse range of tasks and machinery, plant and equipment specific to their sector within the land-based engineering industry. For example these may include:

- Preparation of new and second-hand machinery for sale or hire
- Pre-delivery inspection of machinery carried out in accordance with manufacturer's and employer's procedures
- Performing routine service and maintenance operations in accordance with manufacturer's schedules and employer's instructions
- The preparation of equipment for repair for example, cleaning, dismantling and reassembly of machinery and their component parts, this may be carried out under supervision or in accordance with procedures or written briefs
- Conducting routine machine operation and systems testing.
- Handing over machinery plant and equipment to the control and use of others in the workplace. For example a senior technician.

These operations typically take place under the supervision of a senior technician in the workplace or on the customer's site, in which case work may be undertaken outdoors. The nature of the job role presents challenges ranging from routine maintenance to the repair of elementary mechanical faults. This requires a diverse blend of skills, industry underpinning knowledge and the disciplines required for environmental and safe working practice.

Entry Requirements

Individual employers will set their own selection criteria.

Apprentices should have Level 1 Maths and English equivalent to GCSE Grade 2 (old GCSE Grade E) or above, plus suitable and relevant employment. Apprentices will be expected to work towards Level 2 Maths and English where this has not been achieved.

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 18-24 months, however this would be reduced where an apprentice holds previous experience.



L2 Apprenticeship Land-based Service Engineer
 Information



Apprenticeship Content

Knowledge

- How to comply with the Health & Safety at Work Act, Manual Handling regulations, the abrasive wheel regulations and the legislation relevant to the role of Service Engineer.
 - The company staff handbook, the chain of command, workplace procedures.
 - How to record information, maintain accurate customer service records and communicate with customers and colleagues using verbal and handwritten methods.
 - Workshop practices, the identification and application of tools and equipment used in service and maintenance operations.
 - Methods of thermally and chemically joining metals and components.
 - The operating principles of machinery, plant and equipment within the chosen land-based service engineering sector.
 - Underpinning service, maintenance and repair principles and practices, typically including machinery and component conformity procedures, tolerances, pre-load, end float, backlash, component sealing, system bleeding, alignment, balance, calibration, removal of corroded components etc.
 - How to access and interpret technical data relating to machinery and equipment service and maintenance operations.
 - How to handover machinery, plant and equipment to the control and use of others.
 - Emergency First Aid.
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Skills

- Select and apply appropriate tools and equipment, demonstrate dexterity, resourcefulness, and a professional approach to service engineering practice.
 - Maintain and conduct basic repairs and maintenance on power units, power trains, mechanical equipment, plant and machinery and their associated systems and components either under supervision or following procedures.
 - Thermally and chemically join metals and materials.
 - Access and interpret technical data relating to service and maintenance operations.
 - Communicate with customers and colleagues expressing technical information in clear concise terms whilst demonstrating customer care principles.
 - Work efficiently both under supervision, individually and as a team member.
 - Demonstrate a logical, safe and systematic approach to work practices.
 - Carry out operational tests on low technology plant, equipment and machinery.
 - Communicate using a range of methods. This will include delivering oral and written reports to colleagues and customers regarding the work carried out on equipment.
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Behaviours

- Safety orientation
 - Quality focused
 - Communicator
 - Team player
 - Willingness to learn
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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 the York and Penrith campuses.



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-engineer/>

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

York

Mike Herrington: **07967 779783**

mike.herrington@askham-bryan.ac.uk

Penrith

Antony Gibson: **07557 759823**

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