# APPRENTICESHIP STANDARD: LABORATORY TECHNICIAN L3

This apprenticeship standard equips individuals with the practical skills needed to support scientists and laboratory professionals across diverse scientific fields. Apprentices develop expertise in routine and one-off laboratory testing, scientific methods, quality standards, and regulatory compliance. They also learn to use specialist equipment, manage data accurately, and assist in technical investigations. Recognised across sectors such as pharmaceuticals, biotechnology, and education, this programme provides a strong foundation for a rewarding career in modern laboratory science.

Level 3 · Apprenticeship · Truro College

## TOP COURSE HIGHLIGHTS

INDUSTRY-STANDARD FACILITIES | HIGHLY EXPERIENCED TUTORS | DEVELOP SKILLS IN LINE WITH INDUSTRY NEEDS

## LEARN FROM SECTOR EXPERTS

Gain invaluable insights and hands-on experience from industry expert tutors who bring real-world knowledge and expertise to the classroom. Their guidance will help you develop the skills and confidence needed to excel in your chosen field.

## DEVELOP WORK-RELATED SKILLS

Enhance your practical abilities and gain hands-on experience that directly translates to the workplace. This apprenticeship course focuses on real-world applications, ensuring you are well-prepared to meet the demands of your chosen career.

## ENJOY PROFESSIONAL SURROUNDINGS

Immerse yourself in a dynamic and supportive environment that mirrors the professional world. This apprenticeship course provides access to state-of-the-art facilities and resources, helping you to thrive and feel confident in your career journey.

## WHY CHOOSE THIS COURSE?

Unlock Your Potential in Laboratory Science: This apprenticeship blends practical lab experience with essential scientific knowledge. Gain hands-on skills using industry-standard equipment and real-world testing methods.

## WHAT WILL I LEARN?

**Knowledge** The knowledge requirements for this apprenticeship cover core laboratory quality procedures, data handling and cyber security, and the application of statistical techniques to process and present scientific information. Apprentices learn how to identify and solve problems using scientific methods, understand the business and ethical environment they work in, and follow essential health and safety legislation including HASWA, COSHH, DSE, DSEAR, and emergency procedures. They develop knowledge of laboratory specific safety practices, waste management, stock control, and

resource efficiency, alongside both internal regulatory frameworks such as GLP, GMP and GDP, and external regulatory bodies. The standard also requires understanding the purpose of laboratory investigations, error reporting and traceability, LIMS systems, root cause analysis, and continuous improvement principles. **Skills** The skills required for this apprenticeship include working safely in laboratory environments, maintaining good housekeeping, and following safety, environmental, and risk-management procedures. Apprentices must be able to follow and apply quality procedures, prepare for laboratory tasks using appropriate scientific techniques, and carry out laboratory work using specified methods such as Standard Operating Procedures. They learn to use and calibrate laboratory equipment, generate accurate and reliable data, and maintain precise records of all laboratory activities. The role also involves analysing and interpreting data, recognising results that need further investigation, and using statistical methods to present scientific information. Apprentices develop skills in communicating scientific information clearly, including through Laboratory Information Management Systems, identifying and solving problems using scientific methods, and contributing to continuous performance improvement within the laboratory environment. **Behaviours** Laboratory Technicians are expected to work safely and ethically, take responsibility for the quality of their work, communicate effectively, collaborate well with others, and contribute proactively to problem-solving and continuous improvement. **Typical Duties that an apprentice will carry out in the workplace:**

- Work safely in a laboratory, maintaining good housekeeping and following safety, environmental, and risk-management procedures.
- Prepare for laboratory tasks using appropriate scientific techniques, procedures, and methods.
- Perform laboratory tests by following specified methodologies, such as Standard Operating Procedures (SOPs).
- Use and calibrate laboratory equipment, producing accurate data and keeping detailed records of all work undertaken.

## WHERE WILL IT TAKE ME?

This Apprenticeship Standard can open doors to a wide range of scientific and technical roles. Apprentices often progress into positions such as Laboratory Technician or Laboratory Assistant across sectors including pharmaceuticals, biotechnology, chemicals, nuclear, education, and analytical science services.

## ENTRY REQUIREMENTS

Grade 4 GCSE (C) in English, Maths, and a single Science subject.

**IMPORTANT**

Course information can change. Please use the QR code below for the current assessment arrangements, entry requirements and start dates.

**FOR THE LATEST COURSE INFORMATION**

Scan for assessment arrangements, learner support, confirmed start dates and how to apply.