APPRENTICESHIP STANDARD: MACHINING TECHNICIAN L3

This apprenticeship offers hands-on experience with advanced machinery, comprehensive training in safety and technical skills, and a clear pathway to a rewarding career in engineering and manufacturing.

Level 3 · Apprenticeship · Truro College

TOP COURSE HIGHLIGHTS

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

LEARN FROM INDUSTRY 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?

This apprenticeship standard equips apprentices with the skills and knowledge to excel in precision machining roles. Over the course of the apprenticeship, participants will learn to operate and maintain advanced machinery, ensuring high-quality production in various industries. The programme includes rigorous training in safety protocols, technical skills, and problem-solving, culminating in a robust end-point assessment to verify competency. This apprenticeship is ideal for individuals seeking a hands-on career in engineering and manufacturing, and for employers looking to develop a skilled workforce capable of meeting modern industry demands.

WHAT WILL I LEARN?

Knowledge This apprenticeship covers a comprehensive range of knowledge areas essential for precision machining. Apprentices will learn about different types of materials and their properties, machining processes, and the principles of engineering drawing and measurement. They will also gain an understanding of health and safety regulations, quality control procedures, and the importance of maintaining accurate records. This foundational knowledge ensures that apprentices are well-prepared to work with advanced machinery and produce high-quality components. **Skills** Throughout the apprenticeship, participants will develop a variety of practical skills necessary for a successful career in machining. These include setting up and operating CNC machines, performing routine maintenance, and troubleshooting equipment

issues. Apprentices will also learn to interpret technical drawings, use precision measuring instruments, and apply quality control techniques to ensure products meet specifications. Additionally, they will enhance their problem-solving abilities and develop effective communication skills to collaborate with colleagues and supervisors. **Behaviours** Apprentices are expected to demonstrate a strong work ethic, attention to detail, effective communication, teamwork, and a commitment to continuous improvement and safety. **Typical Duties that an Apprentice will carry out in the workplace:**

- Setting up and operating CNC machines: Apprentices will learn to set up and operate Computer Numerical Control (CNC) machines, ensuring precision in machining components.
- Interpreting technical drawings: They will interpret and analyse engineering drawings, blueprints, and schematics to produce high-precision parts.
- Performing routine maintenance: Apprentices will conduct routine maintenance and troubleshooting of machinery to ensure efficient operation.

WHERE WILL IT TAKE ME?

Completing the Machining Technician Apprenticeship opens up numerous career opportunities in the engineering and manufacturing sectors. Apprentices can advance to roles such as CNC Programmer, Tool and Die Maker, Maintenance Technician, or even move into supervisory and management positions. With the skills and experience gained, there is also potential for career growth in specialised areas like quality control, metrology, and mechanical assembly.

IMPORTANT

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