T LEVEL ENGINEERING, MANUFACTURING, PROCESSING AND CONTROL

If you are passionate about modern engineering systems, industrial processes and advanced manufacturing technologies, this T Level will provide an exciting and challenging pathway into the sector. Combining classroom-based learning with substantial industry placement experience, you will develop the technical knowledge, practical skills and workplace behaviours required for a successful career in engineering, manufacturing, processing and control industries, or progression to higher-level study. The programme follows the employer-led T Level model that combines technical learning with significant industry experience.

Level 3 · T Level · Truro College

TOP COURSE HIGHLIGHTS

EMPLOYER-DESIGNED QUALIFICATION | INDUSTRY PLACEMENT | SPECIALIST ENGINEERING FACILITIES | STRONG PROGRESSION ROUTES

WHY CHOOSE THIS COURSE?

This T Level has been developed in partnership with employers to ensure that the knowledge and skills you develop reflect the needs of modern engineering and manufacturing industries. Combining classroom learning with extensive industry experience, this qualification provides an excellent alternative to A Levels for students seeking a technical career pathway.

You will gain an understanding of how products are manufactured, how industrial processes operate and how engineering systems are controlled and improved. Throughout the course, you will develop practical and technical skills while learning how engineering organisations maintain quality, efficiency and safety within production environments.

You will be taught by experienced tutors in specialist engineering facilities and will have the opportunity to apply your knowledge through practical activities and industry placement experiences.

WHAT WILL I LEARN?

The T Level in Engineering, Manufacturing, Processing & Control consists of three key elements: Core Component: This component develops the underpinning knowledge and understanding required across the engineering and manufacturing sector. Topics include: health and safety in engineering environments, engineering principles and applications, mathematics and science for engineering, quality assurance and continuous improvement and materials and manufacturing systems. Occupational Specialist Component: You will develop specialist knowledge and skills associated with manufacturing, processing and control environments. Topics include: manufacturing operations, production planning and control, automation and control systems, monitoring and improving production performance and quality, equipment operation and maintenance, lean manufacturing principles and problem-solving and process improvement. Industry Placement: Every student will complete a substantial industry placement of at least 315 hours. This placement provides valuable experience within a real engineering or manufacturing workplace, enabling you to develop professional behaviours, technical skills and industry knowledge while building connections with employers.

WHERE WILL IT TAKE ME?

This course has been designed for students wishing to progress into highly skilled roles within engineering and manufacturing industries. Progression opportunities include:

- Engineering degrees
- Manufacturing Engineering degrees
- Higher Technical Qualifications (HTQs)
- Higher and Degree Apprenticeships
- Process engineering careers
- Manufacturing technician roles
- Production engineering pathways
- Operations and quality assurance roles
- Maintenance and control engineering careers

Successful students will possess the technical knowledge and workplace skills required for progression into employment, apprenticeships or higher-level study.

ENTRY REQUIREMENTS

5 GCSEs at Grade 4 or above including GCSE Maths grade 5 (Higher Paper).

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.