T LEVEL DESIGN & DEVELOPMENT FOR ENGINEERING AND MANUFACTURING

If you are interested in designing innovative products, developing engineering solutions and shaping the future of manufacturing, this T Level is an ideal choice. The course combines technical theory, practical skills and industry experience to provide the knowledge and occupational competency required for progression into engineering design, product development, apprenticeships, higher education or employment within the engineering and manufacturing sector.

Level 3 · T Level · Truro College

TOP COURSE HIGHLIGHTS

EMPLOYER-DESIGNED QUALIFICATION | INDUSTRY PLACEMENT | INDUSTRY-STANDARD CAD | PROGRESSION ROUTES

WHY CHOOSE THIS COURSE?

This T Level has been developed in collaboration with employers to ensure the knowledge and skills you develop reflect the needs of modern engineering and manufacturing industries. T Levels combine technical study with real industry experience, providing a strong alternative to A Levels for students who know they want to pursue a career in engineering.

With a focus on design, development and innovation, you will learn how engineering products are conceived, designed, tested and manufactured. You will develop an understanding of the complete engineering lifecycle while gaining practical skills and workplace experience through an extended industry placement.

Lessons will take place in specialist engineering facilities and be delivered by experienced staff who will support you in developing the skills, knowledge and professional behaviours expected by employers.

WHAT WILL I LEARN?

The T Level in Design & Development for Engineering and Manufacturing consists of three key elements: Core Component: This component develops the knowledge and understanding that underpin modern engineering and manufacturing industries. Topics include: engineering business and commercial principles, health and safety, mathematics and science for engineering, quality and continuous improvement and materials and manufacturing processes Occupational Specialist Component: You will develop the specialist skills required within engineering design and development roles. Topics include: engineering design processes, Computer-Aided Design (CAD) and development, problem solving and engineering innovation and manufacturing. 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 environment, helping you develop practical skills, professional behaviours and industry knowledge.

WHERE WILL IT TAKE ME?

This course is intended for students who wish to progress into highly skilled engineering and manufacturing careers. Progression routes include:

- Engineering degrees

- Product Design degrees
- Higher Technical Qualifications (HTQs)
- Higher and Degree Apprenticeships
- Engineering design technician roles
- Product development roles
- Manufacturing engineering careers
- Mechanical and production engineering pathways

Upon successful completion, students will possess the technical knowledge and occupational skills required to progress confidently into employment 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.