

T Level Engineering – Design & Development

Subject Area	Engineering
Course Type	School Leavers
Study Level	Level 3
Delivery Mode	Full-time
Location	Trinity Green
Duration	2 Academic Years
Start Date	September 2024
Course Code	PA000093

Course Summary

This T Level has been developed in collaboration with engineering employers and businesses so that it meets the needs of industry. It is a cutting-edge program designed to give you the skills and knowledge needed to thrive in the engineering and manufacturing industries. The course combines theoretical education with practical, hands-on experience, enabling you to understand the full lifecycle of product design and development, from initial concept to final production. You will develop a strong foundation in engineering principles, design techniques, and manufacturing processes, preparing you for a variety of roles in this dynamic sector.

What You Will Learn

By the end of this course you will:

- Understand the fundamental concepts and roles within the engineering and manufacturing sectors.
- Demonstrate knowledge of engineering principles and materials used in design and development.

- Create design solutions using CAD and prototyping techniques for practical engineering problems.
- Apply manufacturing processes and quality assurance methods effectively.
- Develop project management skills and understand the importance of teamwork in engineering projects.
- Complete a project that integrates engineering design and manufacturing principles, showcasing practical skills and innovation.

Modules

- Commercial awareness
- Engineering and design practices
- Engineering drawings and graphical language
- Materials and their properties
- Mathematics for engineering and manufacturing
- Maintenance, installation and repair practices
- Science for engineering and manufacturing

Entry Requirements

5 GCSEs Grade 5 or above including Maths and English.

Work Experience

The 45 day industry placement allows you to develop your occupational specialism skills as well as those necessary to working in any environment, such as effective planning, working with others, health and safety and promoting equality and diversity.

Progression

Successful completion of this course can lead to employment, apprenticeships or higher education. Careers include:

- CAD technician
- 3D printing technician

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We reserve the right to withdraw any programmes or service at any time.