T Level in Design and Development for Manufacturing and Engineering (Mechanical Engineering)

Ofsted Outstanding Provider

Course Level: Level 3 | **Campus: Stafford** | **Subject Type: Construction & Engineering**

Course Overview:

Explore the intricate relationship between design, manufacturing, and engineering.

Delve into essential mathematical concepts crucial for engineering and manufacturing success. Understand materials processing techniques, their impact on product quality, and develop a keen sense of business awareness to navigate the commercial landscape effectively.

What's Covered:

The world of engineering is fast-paced and ever-changing with an array of exciting opportunities available for aspiring engineers. Studying this pathway aims to develop your understanding of engineering disciplines and you will have the opportunity to where working directly within the engineering industry on your work placement.

The T-Level Engineering programme gives in-depth technical skills development with Year One encompassing all aspects of 'Core Engineering' including:

- Mechanical and Electrical Engineering
- Mechatronics
- Business, finance and commercial
- Continuous improvement
- Maths and science
- Digital engineering systems

As part of your studies, you will be expected to undertake a work placement to enhance and develop not only your education of the industry, but also to gain valuable industrial training with your employer placement. This work placement opportunity can be achieved using a range of options, and is subject to the employer's requirements. The placement can be achieved using a block placement or day release. Employers are keen to engage and train students in engineering due to the skills gaps in the industry.

You will continue with your work placement alongside planning, designing and managing an employer set engineering project. In college you will be able to specialise in Design Engineering and you will have access to the latest specialist technical equipment to help you to stand out from the crowd.

New Course

84% High Grades

Distinction or above in 2023

Entry Requirements:

You will need a minimum of five GCSEs at grade 5 or above, including maths and English Language, in subjects that are relevant to the course you would like to study. In addition to this, you will also need a grade 5 or above in Science.

Assessment Information:

You will be assessed through a combination of exams, coursework, work based observations, an employer project and an end point assessment.

Fees and Financial Support:

College Maintenance Allowance (CMA):

Anyone with a household income under £26,000 can receive up to £20 per week financial support to help pay for travel and meals and meet the costs of essential trips, books, stationery and equipment. The payments will be subject to full attendance on your course. A range of other financial support is available, depending on your personal circumstances. For more details visit nscg.ac.uk/finance

Progression:

This course will prepare you for a career in design and development for engineering. Upon successful completion of the course, you may consider a career as a Design Engineer.
The Royal Academy of Engineering, Siemens, Autodesk CAD and the Ministry of Defence are a few of the many top organisations who have validated this Level 3 two-year programme for 16-19 year olds. On completion, students can progress onto Higher Technical qualifications at Level 4 and 5, Higher Apprenticeships or degrees up to Level 6.