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T Level in Engineering, Manufacturing, Processing and Control - Fitting and Assembly Technologies

Location	Stockport College
Course Type	College 16-18
Department	Engineering
Start Date	Wednesday 1st September 2027
Course Code	SFP-EG3T-1200

Course Overview

The T-Level Engineering Fitting and Assembly program is a comprehensive and hands-on course designed to equip students with the skills and knowledge needed for a successful career in engineering and manufacturing. This two-year course combines classroom learning with practical training to cover a wide range of essential topics.

Students will gain expertise in precision machining, welding, assembly techniques, and quality control processes. They will also develop proficiency in reading technical drawings, using industry-standard tools and equipment, and adhering to safety regulations.

Throughout the program, students will work on real-world engineering projects, providing them with practical experience and enhancing their problem-solving abilities. Graduates of this T-Level program will be well-prepared for a variety of engineering and manufacturing roles in industries such as aerospace, automotive, and manufacturing.

Course Requirements

Grade 5 in GCSE maths and Science plus 3 GCSEs at Grade 4 (including English Language).

What You Will Learn

The T Level Technical Qualification in Engineering, Manufacturing, Processing and Control allows learners to gain an understanding of what is needed to work within the engineering industry. Topics covered include processes of production and manufacturing, materials, specialist machinery, product and project management and quality assurance and quality control.

Assessment

Examinations:
Written examinations assess theoretical knowledge and understanding of engineering principles, mathematics, and science.

Practical Assessments:
Practical assessments evaluate students' hands-on skills in a workshop or laboratory setting. This may include tasks like machining, welding, assembly, and using engineering tools and equipment.

Assignments and Projects:
Students are often required to complete assignments and projects related to real-world engineering problems. These assess their problem-solving abilities, research skills, and project management capabilities.

Presentations:
Students may be asked to deliver presentations on engineering topics, projects, or case studies. This assesses their communication and presentation skills.
Industry Placement Assessment:

The industry placement is a significant component of T-Level programs. Students are assessed on their performance and learning during their work placement, including their ability to apply theoretical knowledge in a practical setting.
Coursework and Portfolios:

Some assessments involve compiling a portfolio of work, including coursework, reports, and reflections on practical experiences.

Written Reports:
Students may be required to write technical reports based on experiments, projects, or case studies.
Observation and Skills Assessment:

Assessors may observe students in a workshop or laboratory setting to evaluate their practical skills and adherence to safety procedures.
Oral Interviews and Vivas:

In some cases, students may undergo oral interviews or vivas to assess their depth of understanding in specific engineering topics.
Mathematical and Scientific Problem Solving:

Students are often tested on their ability to solve engineering-related mathematical and scientific problems.

Progression

Higher Apprenticeship in Engineering
University to study Engineering

Career Options

Welder, blacksmith, electrical engineering technician, materials technician,other roles within the engineering industry

Mandatory Units

Core Engineering Knowledge and Skills:

Introduction to Engineering Principles
Engineering Mathematics
Engineering Science
Engineering Materials
Core Engineering Practical Skills:

Practical Workshop Skills
Engineering Drawing and CAD (Computer-Aided Design)
Health and Safety in Engineering
Core Professional Skills:

Communication for Engineers
Engineering Project Management
Employability Skills
Mathematics and Science:

Applied Mathematics for Engineering
Applied Science for Engineering

Contact Details

For further information please contact T: 0161 886 7070 or E: info@trafford.ac.uk

Disclaimer

Although every care has been taken to ensure that the information contained within this document is accurate, there may be changes to this programme and provision. We will endeavour to keep prospective and current students updated where appropriate and when the information becomes available.