

HOW COLLEGE

T-LEVELS

THE NEXT LEVEL QUALIFICATION



T LEVEL
**IN ENGINEERING,
MANUFACTURING,
PROCESSING AND
CONTROL**



HEART OF
WORCESTERSHIRE
COLLEGE

T LEVEL IN ENGINEERING, MANUFACTURING, PROCESSING AND CONTROL

T Course Overview

The engineering and manufacturing sector is one of the UK's broadest. It encompasses a range of disciplines and employs 18% of the UK's working population. The UK Manufacturing sector itself brings £31 Billion into the UK economy each year and is the 9th largest manufacturing country in the World. However, the engineering sector is experiencing a skills shortage meaning opportunities for young people within this sector are broad and varied.

T Levels are two-year technical qualifications which have been developed in collaboration with employers and businesses to meet the needs of different industries. Learners will gain an understanding of the engineering industry and the sector and must complete a minimum 45 day industry placement as part of the qualification with a maximum of two employers. T Levels are equivalent to three A-levels and have UCAS tariff points.

The T Level in Manufacturing, Processing and Control is split into three main sections:

1. Technical Qualification - this is the main classroom-based element. Students will learn about their chosen sectors through a curriculum designed by employers and developed by an awarding organisation and will cover topics such as:

- Processes of production and manufacturing
- Materials used in production, manufacturing, and fabrication environments
- Specialist machinery utilised in the production and manufacturing environments
- Product and project management
- Quality assurance and quality control

The core content is the building blocks of knowledge and skills that will give a learner a broad understanding of the industry and job roles. At the same time, it will develop the core skills they will need to apply when working within the industry. They are:

- Analysing and interpreting
- Planning and preparation
- Developing responses
- Evaluating and quality assuring
- Communication and presentation

Core skills will be assessed by the use of an employer-based project.

A learner will then have a choice of studying one standalone **occupational specialism:**

- Fitting and assembly technologies
- Machine and toolmaking technologies

Occupational specialisms develop the knowledge, skills, and behaviours necessary to achieve threshold competence in an occupation. Threshold competence is defined as when a learner's attainment against the knowledge, skills and behaviours is of a standard for them to enter the occupation and industry. They must also demonstrate the ability to achieve occupational competence over time with the correct support and training.

2. Industry placement - this runs for a minimum of 315 hours (45 days) overall and will give students practical insights into their sector and an opportunity to embed the knowledge and skills learned in the classroom. It is worth 20% of the qualification and must be completed successfully.

3. English, maths and digital provision - These are built into the classroom-based element of the T Level, meaning students will be given a solid foundation of transferable skills.

Entry requirements

At least 5 GCSEs at grade 6 or above including maths and English.

Delivery information

Methods of assessment

Students will sit externally set exams at the end of each academic year to test their understanding of the subject. They will also undertake a skill-assessment to demonstrate their competency skills and an Employer set project which will take place in controlled conditions. Industry Placement must also be successfully completed. Students who complete their T Level will receive an overall grade of pass, merit, distinction or distinction*.

Progression after T Levels

This course is suitable for anyone interested in a career in manufacturing, processing and control for engineering and manufacturing. Progression onto a Higher Education courses or Higher/Degree Apprenticeships is possible.