

Engineering

T Level: Engineering and Manufacture (Equivalent to 3 x A-levels)

Examination Board: City and Guilds and EAL

Aims of course:

This qualification is designed to provide highly specialist, work-related qualifications in a range of vocational engineering sectors. It has been developed in collaboration with employers and businesses so that the content meets the needs of industry and prepares the learners for work.

The T Level is a two-year programme that incorporates an engineering common core first year and an industry set project. In the second year of study, the learners will specialise in a pathway and complete applied project work. Throughout the two-year programme, the T Level requires learners to complete an industry placement where they will gain useful work-based experience to support their learning in the classroom.

Programme of study:

Learners will complete the following engineering elements in year 1 and these elements will be examined at the end of the year

Level	Element	
Paper 1	Maths and Science Principles for Engineering	
	4	Essential mathematics for engineering and manufacturing
	5	Essential science for engineering and manufacturing
	6	Materials and their properties
	7	Mechanical principles
	8	Electrical and electronic principles
	9	Mechatronics
Paper 2	Engineering in Context	
	1	Working within the engineering and manufacturing sectors
	2	Engineering and manufacturing past, present, and future
	3	Engineering representations
	10	Engineering and manufacturing control systems
	11	Quality management
	12	Health and safety principles and coverage
	13	Business, commercial and financial awareness
	14	Professional responsibilities, attitudes, and behaviours
	15	Stock and asset management
	16	Continuous improvement
	17	Project and programme management

In year 2 the learners will follow a specialist pathway and complete a practical assignment that will form part of their overall assessment for the T Level. The purpose of year 2 specialism is to understand commonly used processes and systems in industry which will make them better prepared for their next steps into either an apprenticeship or further education.

Approaches to learning:

This is a vocational programme that gives the learner the practical skills, theory, and workplace understanding they need to be ready for progression to employment and/or higher education. Our teaching and learning are enriched by our challenge partners who will complete tasks with the learners either at the Academy or at their facilities that support the classroom learning and provides contact for the theory being taught.

Who is this course aimed at?

The qualification is designed for learners who want to expand their understanding of the core principles of engineering across a broad range of diverse topics. It is aimed at learners looking to progress to apprenticeships in the engineering sector or further study at a higher level.

Minimum entry requirement:

**Ideally, Grade 5 in mathematics but learners with 4 will be considered.
At least 4 other grade 4's to include English and Science**

The T Level is assessed through a mixture of internal and external assessments over the course of the 2 years.