T-Level in Maintenance, Installation and Repair for Engineering and Manufacturing

Overview

Course details may be subject to change

This T-Level in Maintenance, Installation and Repair for Engineering and Manufacturing has been developed in collaboration with digital employers, professional bodies, universities and businesses so the content meets the needs of the industry and will prepare you for the workplace.

You will develop a strong set of transferable core skills that will equip you for a career in the engineering industry or to go on to do a higher-level apprenticeship or degree. You will spend 80% of your time at college where you will develop a broad range of core skills from across the whole sector. In addition to this, you will work on an employer set project and engage in a 45-day industry placement in a engineering organisation, giving you hands-on experience in a real-life setting.

T-Levels include the following compulsory elements:

A technical qualification (TQ), which includes; core theory, concepts and skills for the chosen sector, and specialist skills and knowledge for an occupation or career.

An industry placement with an employer which runs for a minimum of 315 hours (45 days) overall and gives you practical insights into the sector and an opportunity to embed the knowledge and skills learned in the classroom
A minimum standard in English, maths and digital provision are also built into the classroom-based element of the T-Level, meaning you will be given a solid foundation of transferable skills.

Study Aims

This T-Level qualification is for you if you want to start a career in Maintenance, Installation and Repair for Engineering and Manufacturing as, for example, engineering maintenance technician, marine engineering technician, mechanical engineering technician, wind turbine technician, textile machinery technician, maintenance fitter, vehicle body repairer, motor mechanic, auto-electrician, motor vehicle breakdown engineer.

The course is designed for post-16 students and is an ideal qualification if you are intending to progress directly to employment within the engineering industry, to an engineering apprenticeship or to higher education.

Modules Studied during Core Component:

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- Working within the engineering and manufacturing sectors
- Engineering and manufacturing past, present, and future
- Engineering representations
- Engineering and manufacturing control systems
- Quality management
- Health and safety principles and coverage
- Business, commercial and financial awareness
- Professional responsibilities, attitudes, and behaviours
- Stock and asset management
- Continuous improvement
- Project and programme management

Occupational Specialism: Mechatronics Content Summary:

- Common mechanisms and controllers
- Knowledge and application of component classification, numbering and referencing systems
- How components are removed, replaced and repaired as part of mechatronic systems
- Skills to plan and prepare mechatronic maintenance activities using evaluation
- Skills to select and use tools, equipment, machinery and technology safely and effectively to complete maintenance, installation and repair activities

Teaching and Assessment

Teaching will be a variety of classroom based, self-study and workplace learning activities. Assessment is both formative and summative. Formative assessment of learning will be through a range of methods including peer assessment, self-assessment and tutor assessment and aims to support your learning in preparation for summative assessment. Summative assessment is undertaken through synoptic projects, an employer-set project and exams and is conducted by the awarding body. Your Industry placement is assessed through your performance in the workplace by your work-based supervisor and your tutor.

Placement

You will undertake a minimum of 315 hours of work placement in industry.
You will always perform to the best of your ability and conduct yourself in a professional manner as if an employee of your placement organisation.
You will gain a T-Level in Maintenance, Installation and Repair for Engineering and Manufacturing and be able to progress straight into employment or continue to a higher-level apprenticeship or degree.

You could progress into employment and work in roles such as:

- Engineering maintenance technician
- Marine engineering technician
- Mechanical engineering technician
- Wind turbine technician
- Textile machinery technician
- Maintenance fitter
- Vehicle body repairer
- Motor mechanic
- Auto-electrician
- Motor vehicle breakdown engineer

WHERE CAN IT TAKE ME?

Engineering maintenance technician
£40,000 Potential salary

Wind turbine technician
£40,000 Potential salary

Maintenance fitter
£35,000 Potential salary