



**T LEVELS:**  
**ENGINEERING AND**  
**MANUFACTURING**

## WHAT ARE T LEVELS?

T Levels are a new Level 3, two-year technical programme that provide you with a high-quality alternative to A Levels. They have been developed in collaboration with employers, and combine theory, practical and classroom learning with a minimum 45-day industry placement. If you opt to take a T Level you will spend 20% of your time on an industry placement and 80% in the classroom.

After completing the course you can progress directly into work, on to a Higher Apprenticeship or study a university degree, as T Levels are awarded UCAS points.

We offer the following T Levels in Engineering and Manufacturing:

- ⤴ Maintenance, Installation and Repair (Light and Electric Vehicles)
- ⤴ Design and Development for Engineering and Manufacturing (Electrical and Electronic Engineering)
- ⤴ Design and Development for Engineering and Manufacturing (Mechanical Engineering)

These subject areas have been chosen not only to give a wide variety of choice to our students but also to align with anticipated high demand skill areas for Greater Manchester and the wider North West region in the coming years.



## WHO CAN STUDY A T LEVEL?

T Levels can be studied by any young person aged 16-18 and students up to age 24 who have an Education, Health and Care Plan (EHCP).

If you are interested in taking a T Level in Maintenance, Installation and Repair (Light and Electric Vehicles) you will need to achieve the below entry requirements:

- ⤴ 5 GCSEs at grade 4 or above including math's & English at grade 6 and science at grade 5 or above
- ⤴ Successful attendance of the Jump Start to T Levels programme
- ⤴ Successful interview outcome.

If you are interested in taking a T Level in one of the other Engineering and Manufacturing pathways you will need to achieve the below entry requirements:

- ⤴ Minimum 5 GCSEs at Grade 4 or above to include:
  - English and Maths at minimum Grade 6
  - Science at minimum Grade 5
- ⤴ Successful attendance of the Jump Start to T Levels programme
- ⤴ Successful interview outcome.

If you don't quite achieve these grades and would still like to pursue a T Level there is the option of a one-year T Level Foundation Year, which will then allow you to move on to a T Level the following year and gain a qualification at the same time\*. Additionally you may still be accepted on a T Level if you successfully complete the Jump Start to T Levels programme and interview regardless of achieved grades.

We offer the following T Levels Foundation Year programmes as part of our Industry Excellence Academy:

- ⤴ Engineering
- ⤴ Vehicle Fitting Principles sponsored by Moffats.

*\*Subject to meeting the course requirements.*

# JUMP START TO T LEVELS

Both our T Levels and T Level Foundation Year require completion of our Jump Start to T Levels programme as an entry requirement.

The Jump Start programme is a two-week introduction to our Industry Excellence Academy, T Level and T Level Foundation Year programmes, where students can meet their tutors and experience what learning at The Manchester College is like.

Students will take part in a learning experience to demonstrate their creativity, teamwork and problem solving skills, as well as their resilience, timekeeping and commitment.

The programme is designed to inspire students to think like engineering and manufacturing professionals through a range of project-based learning challenges that cover:

- ⤴ Problem solving
- ⤴ Resilience
- ⤴ Creativity
- ⤴ Teamwork
- ⤴ Communication skills.

The sessions will lead up to a written report, presentation and interview with an employer.

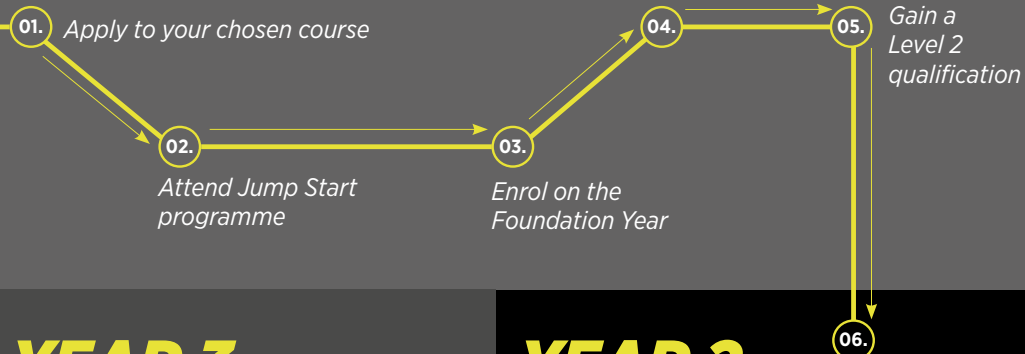


# JOURNEY TO T LEVELS

## YEAR 1

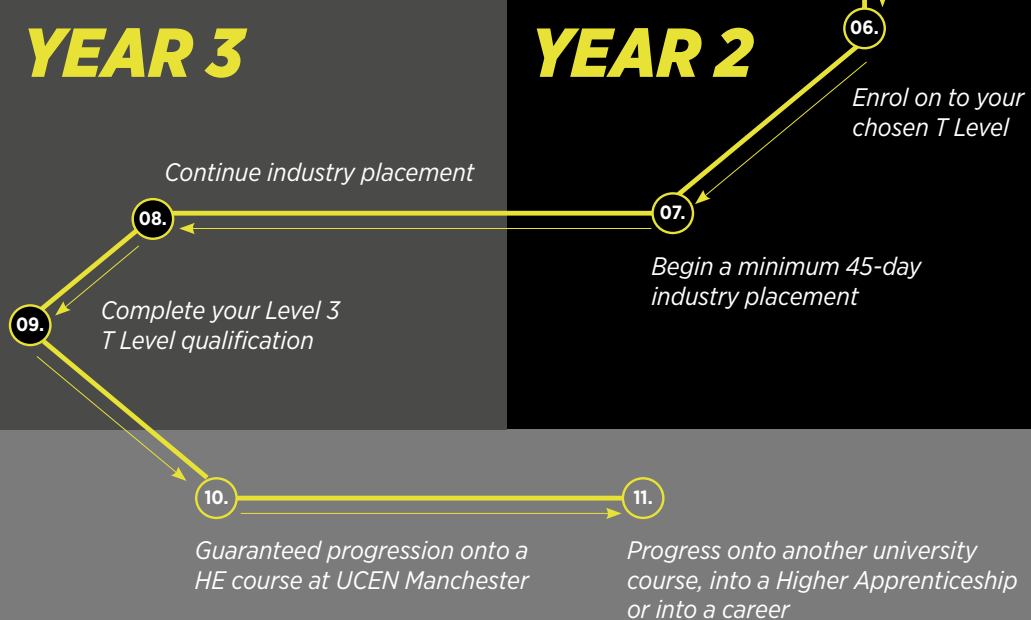
*(If you don't have the grades for a T Level)*

*Undertake a minimum 15-day industry placement*



## YEAR 3

## YEAR 2



## YEAR 4

*(If you choose to progress to UCEN Manchester)*





## THE MANCHESTER COLLEGE T AWARD

Those successful in gaining a place on a T Level will be eligible for the 'T Award', a package of benefits that includes:

- ⤴ £300 per year bursary\*
- ⤴ Free branded work wear
- ⤴ Opportunity to take part in exciting college-wide competitions
- ⤴ Minimum 20% delivery by industry experts
- ⤴ Access to industry standard laptop\* (as appropriate)
- ⤴ Guaranteed progression to a Higher Education course at UCEN Manchester
- ⤴ Bursary incentive if progressing to UCEN Manchester
- ⤴ Minimum 45-day industry placement
- ⤴ Digital upskilling
- ⤴ Masterclasses
- ⤴ And much more.

*\*Subject to requirements including 95% attendance, positive attitude and grade profile.*

## OUR COURSES

Our courses have been co-developed and are co-delivered by our industry partners to meet the needs of industry and prepare you for work in the sector.

Alongside your studies, you'll undertake a minimum 15-day (Foundation Year) or 45-day (T Level) industry placement, as well as having regular guest speakers, workshops from industry experts, working to live briefs and more. You'll also be assigned a specialist employability tutor to support and prepare you for the world of work.

All our courses will enable you to develop a general understanding of issues relevant to the sector, including:

- ⤴ Working within the engineering and manufacturing sectors – An understanding of how materials, conditions and context influence design processes and products
- ⤴ Essential mathematics for engineering and manufacturing – A knowledge and understanding of mathematics including standard matrices and determinants and standard trigonometry
- ⤴ Materials and their properties – Understanding material processing techniques and their effects on materials and material quality, the condition of materials, how these are managed, and materials testing methods and techniques
- ⤴ Business, commercial and financial awareness - Basic commercial principles including commercial priorities and markets, customers/clients/partners and resource allocation.





## DESIGN AND DEVELOPMENT FOR ENGINEERING AND MANUFACTURING

Level 3 | T Level | Openshaw campus | Two years

### WHAT YOU'LL LEARN ON THIS COURSE

Our T Level in Design and Development for Engineering and Manufacturing is suitable for you if you have a desire to follow a career working in a role such as a design engineer. We provide students with a choice of Electrical & Electronic Engineering Design & Development or Mechanical Engineering Design & Development.

You'll start by broadening your understanding of materials and their properties, mechanical, electrical and electronic principles and how materials, conditions and context influence design processes. You'll also develop your knowledge of the essential science and mathematics required to have a successful career in engineering and manufacturing as well as your business, commercial and financial awareness.

Once you've developed a solid foundation of knowledge, you'll focus on specialising in a specific area of design and development for engineering (Electrical and Electronic or Mechanical), putting what you learnt throughout year 1 of the course into practice both in College throughout year 2 and during your industry placement.

### WHAT YOU CAN DO WITH THIS T LEVEL

This course is suitable for anyone interested in a career in design and development for engineering and manufacturing.

You can progress into roles such as:

- ⤴ CAD Technician
- ⤴ Electrical Engineer
- ⤴ Engineering Consultant
- ⤴ Mechanical Engineer
- ⤴ Project Manager.



## MAINTENANCE, INSTALLATION AND REPAIR (LIGHT AND ELECTRIC VEHICLES)

Level 3 | T Level | Openshaw campus | Two years

### WHAT YOU'LL LEARN ON THIS COURSE

Our T Level in Maintenance, Installation and Repair (Light and Electric Vehicles) is for you if you'd like to start a career working as an accident repair technician or a maintenance and operation engineering technician.

Like our other Engineering and Manufacturing T Levels, you'll start by broadening your understanding of materials and their properties, mechanical, electrical and electronic principles and how materials, conditions and context influence design processes.

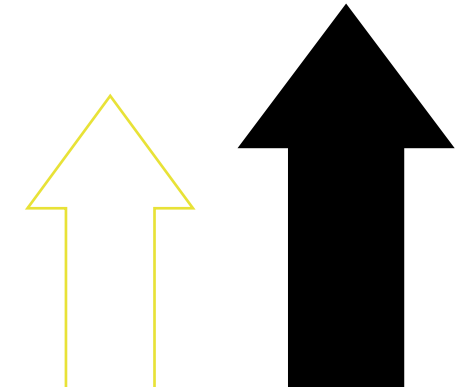
You'll develop your knowledge of modern methods of engineering within a theory setting. You will learn the essential science and mathematics required to have a successful career in engineering and manufacturing, as well as develop business, commercial and financial awareness.

### WHAT YOU CAN DO WITH THIS T LEVEL

This course is suitable for anyone interested in a career in maintenance and repair of vehicles in the automotive industry.

You can progress into roles such as:

- ⤴ Auto-electrician
- ⤴ Motor Mechanic
- ⤴ Motor Vehicle Breakdown Engineer
- ⤴ Vehicle Body Repairer.





## FOUNDATION YEAR

### ENGINEERING

Level 2 | Certificate | Openshaw campus | One year

#### ENTRY REQUIREMENTS

- ⤴ English or maths at GCSE Grade 4
- ⤴ Any other at GCSE Grade 3 and, preferably, GCSE Grade 4 in science
- ⤴ Attendance at our Jump Start programme.

#### WHAT YOU'LL LEARN ON THIS COURSE

If you see your future in engineering and manufacturing and you'd like to go on to study a T Level, then this qualification is the perfect first step for you.

You'll start by learning all about engineering principles as well as the processes and materials you'll be making use of when you start your career. You'll go on to develop the practical skills you'll need when working in the industry including workshop skills, machining techniques and PCB components and soldering.

#### WHAT YOU CAN DO WITH THIS QUALIFICATION

Upon successful completion of the Foundation Year, students can progress onto the Level 3 T Level in Design and Development in Engineering and Manufacturing.



## FOUNDATION YEAR

### VEHICLE FITTING PRINCIPLES - SPONSORED BY MOFFATS

Level 2 | Certificate | Openshaw campus | One year

#### ENTRY REQUIREMENTS

- ⤴ English and maths at GCSE Grade 4
- ⤴ Attendance at our Jump Start programme.

#### WHAT YOU'LL LEARN ON THIS COURSE

Whether you want to work in a garage, dealership or fast-fit company, this course will reward you with an industry-recognised vocationally related qualification (VRQ) and will allow you to progress onto our T Level in Maintenance, Installation and Repair.

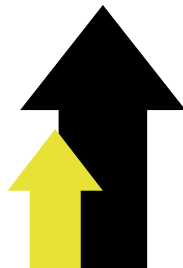
Moffatts sponsor this course, so you'll benefit from a number of expert masterclasses. You'll also discover more about life as a professional vehicle fitter on your industry placement.

This will give you a greater understanding of many other aspects of a business, such as customer service. You'll learn routine vehicle fitting tasks, including:

- ⤴ Inspecting, repairing and replacing tyres for light vehicles
- ⤴ Carrying out front wheel alignment on light vehicles
- ⤴ Inspecting and replacing clutches, exhaust components, suspension dampers, batteries and braking systems
- ⤴ Learning to use oxy-acetylene safely
- ⤴ Assessing and securing a roadside situation.

#### WHAT YOU CAN DO WITH THIS QUALIFICATION

Upon successful completion of the Foundation Year, students can progress onto the Level 3 T Level in Maintenance, Installation and Repair (Light and Electric Vehicles) the following year.



# HOW TO APPLY

To apply to any of our Level 3 T Levels and Level 2 Foundation Year Programmes, visit [tmc.ac.uk](https://tmc.ac.uk).

Successful applicants will then receive more information on the Jump Start to T Levels programme.

To find out more about T Levels visit our Industry Excellence Academy website:

[industry-excellence.tmc.ac.uk/t-levels](https://industry-excellence.tmc.ac.uk/t-levels)


You can also hear from our students on what it's like to study a T Level at The Manchester College by watching our case study videos on our T Level You Tube playlist. Scan the QR code below to watch.



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 [tmc.ac.uk](https://tmc.ac.uk)

 03333 222 444



The Manchester College is committed to equality of opportunity, non-discriminatory practices and supporting individual learners.

This information is also available in a range of formats, such as large print, on request.

All information in this brochure was correct at the time of print.

