



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.

From September 2023 we will be offering the following T Levels in Engineering and Manufacturing:

- ⤴ Design and Development for Engineering and Manufacturing
- ⤴ Engineering, Manufacturing, Processing and Control
- ⤴ Maintenance, Installation and Repair (Vehicles).

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 (Vehicles) you will need to achieve the below entry requirements:

- ⤴ 5 GCSE's 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 Transition Programme, 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.

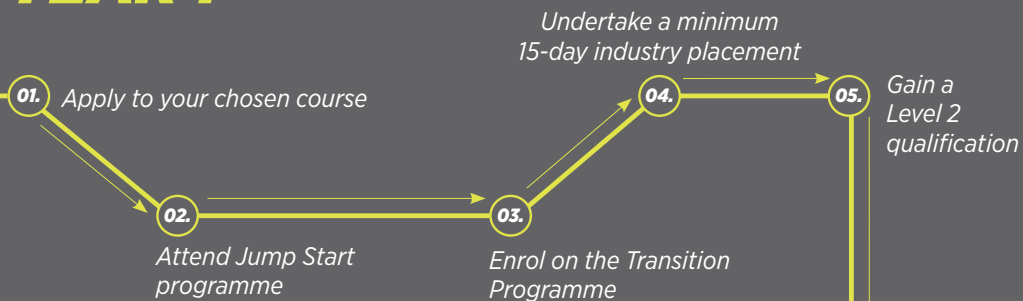
We offer the following T Level Transition Programmes as part of our Industry Excellence Academy:

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

*Subject to meeting the course requirements.

TRANSITION TO T LEVELS

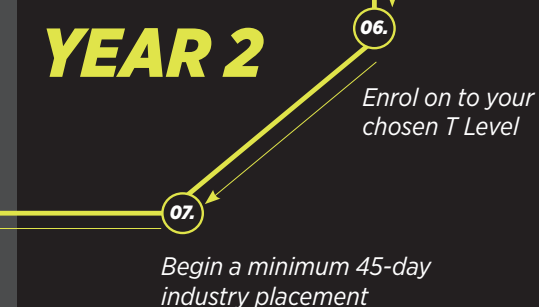
YEAR 1



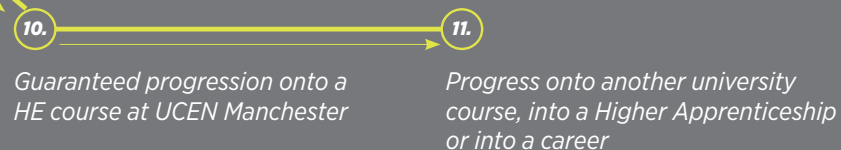
YEAR 3



YEAR 2



YEAR 4



JUMP START TO T LEVELS

Both T Levels and Transition Programmes require completion of our Jump Start to T Levels programme as an entry requirement.

Jump Start to T Levels is an introduction to our Industry Excellence Academy, T Levels and T Level Transition Programmes where students can meet their teachers and experience what learning at The Manchester College is like.

Students will take part in a project based 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.





THE MANCHESTER COLLEGE **T** AWARD

Those successful in gaining a place on the T Levels or Transition Programmes 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 (T Levels)
- ⌈ Minimum 15-day (Transition Programmes) or 45-day (T Levels) 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 (Transition Programme) 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

As well as the topics mentioned on page 7, you will also develop the knowledge and skills of an engineering and manufacturing professional, including:

- ⌄ Electrical and Electronic Engineering
- ⌄ Business, Commercial and Financial Awareness
- ⌄ Quality Assurance, Control and Improvement
- ⌄ Health and Safety Regulations
- ⌄ Hybrid and Electric Vehicles
- ⌄ Mechatronics
- ⌄ Soldering.

WHAT YOU CAN DO WITH THIS T LEVEL

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

You can progress to a related higher-level apprenticeship or higher-level course and into roles such as:

- ⌄ Mechanical Design Engineer
- ⌄ Manufacturing Design Engineer.



ENGINEERING, MANUFACTURING, PROCESSING AND CONTROL

Level 3 | T Level | Openshaw campus | Two years

WHAT YOU'LL LEARN ON THIS COURSE

As well as the topics mentioned on page 7, you will also develop the knowledge and skills of an engineering and manufacturing professional, including:

- ⌄ Electrical and Electronic Engineering
- ⌄ Manufacturing
- ⌄ Production Lines
- ⌄ Business, Commercial and Financial Awareness
- ⌄ Hybrid and Electric Vehicles
- ⌄ Mechatronics.

WHAT YOU CAN DO WITH THIS QUALIFICATION

This course is suitable for anyone wanting a career in maintenance, installation and repair for engineering and manufacturing.

You can progress to a related higher-level apprenticeship or higher-level course and into roles such as:

- ⌄ Engineering Technician
- ⌄ Machining Technician
- ⌄ Fabrication Technician.





T LEVEL

MAINTENANCE, INSTALLATION AND REPAIR – VEHICLES

Level 3 | T Level | Openshaw campus | Two years

WHAT YOU'LL LEARN ON THIS COURSE

As well as the topics mentioned on page 7, you will also develop the knowledge and skills of an engineering and manufacturing professional, including:

- ↗ Engineering and Manufacturing
- ↗ Maintenance and Repair of Vehicles
- ↗ Fundamental Maths and Science
- ↗ Engineering and Manufacturing Principles
- ↗ Materials and their properties
- ↗ Core Health and Safety Regulations
- ↗ Quality Assurance, Control and Improvement
- ↗ Business, Commercial and Financial Awareness.

WHAT YOU CAN DO WITH THIS T LEVEL

This course is suitable for anyone wanting a career in maintenance, installation and repair for engineering and manufacturing.

You can progress to a related higher-level apprenticeship or higher-level course and into roles such as:

- ↗ Accident Repair Technician
- ↗ Maintenance and Operation Engineering Technician.



TRANSITION PROGRAMME

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

You will learn about topics specific to engineering and manufacturing, including:

- ↗ Engineering and Manufacturing
- ↗ Maintenance and Repair of Vehicles
- ↗ Fundamental Maths and Science
- ↗ Engineering and Manufacturing Principles
- ↗ Materials and their properties
- ↗ Core Health and Safety Regulations
- ↗ Quality Assurance, Control and Improvement
- ↗ Business, Commercial and Financial Awareness.

WHAT YOU CAN DO WITH THIS QUALIFICATION

Progress on to one of our Level 3 T Level courses:

- ↗ Design and Development for Engineering and Manufacturing
- ↗ Engineering, Manufacturing, Processing and Control.





TRANSITION PROGRAMME

VEHICLE FITTING PRINCIPLES SPONSORED BY WYNNS

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

You will learn about topics specific to vehicle fitting principles, including:

- ⤴ Inspecting, repairing and replacing high performance light vehicle and motorcycle tyres
- ⤴ Carrying out light vehicle front wheel alignment
- ⤴ Inspecting and replacing light vehicle clutches, exhaust components, suspension dampers, and vehicle batteries and braking systems
- ⤴ Safe use of oxy-acetylene
- ⤴ Assessing and securing a roadside situation.

WHAT YOU CAN DO WITH THIS QUALIFICATION

Progress on to our Level 3 T Level course:

- ⤴ Maintenance, Installation and Repair (Vehicles).



HOW TO APPLY


To apply to any of our Level 3 T Levels and Level 2 Transition Programmes, visit 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




 The Manchester College

 @TheMcrCollege

 @TheMcrCollege

 @themcrcollege

 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.