

CONSTRUCTION & ENGINEERING



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It starts with you

**Do you want to make your mark on Manchester or even the world?
With a career in construction or engineering, you'll be able to see the
results of your work for years to come.**

One look at the number of cranes dotted across the Manchester skyline will tell you that the construction sector is booming in this city. There's huge demand for highly skilled tradespeople, from architects to joiners and plumbers, and there's no better place to learn your new trade than at The Manchester College.

We'll give you access to everything you need to master the in-demand skills that employers are looking for.

You'll be learning in one of the most technically advanced Construction and Engineering training centres in the north west. We deliver bespoke training in areas including electrical and electronic engineering, design, surveying and planning and much more.

You'll be mastering your skills in realistic working environments at our redeveloped Openshaw campus and Wythenshawe campus, using cutting edge, industry-standard equipment.

And you'll have the security of knowing that the department you'll be studying in has an excellent reputation in the industry. Our Construction and Engineering team worked with the BBC's 'DIY SOS Big Build' to create a veterans' village in East Manchester and we're also an academic partner to the Society of Operations Engineers (SOE).

If you want to work alongside colleagues in a challenging, practical environment, a career in construction could be just what you're looking for. And the first step is easy – choose your course.

So, what are you waiting for?



Careers information

JOB FIGURES

In Construction there were approx. **96,533** employees in Greater Manchester in 2021. This is predicted to increase by **6.3%** by 2025. In Engineering there were approx. **120,495** employees in Greater Manchester in 2021. This is predicted to increase by **0.9%** by 2025.



AVERAGE EARNINGS

In construction the average wage in CM is **£32,400** per annum (2021). In engineering the average wage in Greater Manchester is **£34,293** per annum (2021).



REPLACEMENT DEMAND

In construction **17.4%** of the current workforce will be reaching retirement age in the next 10 years, meaning those positions will need filling. In engineering **19.1%** of the current workforce will be reaching retirement age in the next 10 years, meaning those positions will need filling.



WORKFORCE SPLIT

In construction currently **76.9%** of the workforce are male. In engineering currently **74.7%** of the workforce are male.

Types of jobs available	Skills needed	Examples of GM employers
Aerospace Engineer	Attention to detail	AECOM
Bricklayer	Communication	Balfour Beatty
Civil Engineer	Customer service	Kier
Electrical/Electronic Engineer	Finance and budgeting	Laing-O-Rourke
Joiner	Innovation	Network Rail
Labourer	Leadership	Siemens
Mechanical Engineer	Planning	Talk Talk Group
Project Manager	Project management	THG
Rail Engineering Technician	Teamwork	Wates
Quantity Surveyor	Time management	Wilmott Dixon

**FIND OUT
MORE HERE**



Construction



Engineering

Data sourced from
Lightcast July 2023.

“

What our students say

We get way more experience than I ever imagined on the course. I'm working towards an apprenticeship and my tutors have been so supportive in helping me find somewhere. They push us to be the best we can be. I've gained experience in so many aspects of carpentry and joinery including window sill repairs, flooring, doors and much more.

Malakei Blyth
Level 2 Carpentry and Joinery



“

I chose this course because work experience alongside learning will help me get into the industry more easily than A levels.

I enjoy the placement, being on-site, and seeing buildings being constructed. We learn to use software like Revit and AutoCAD, do presentations, and surveying, including drone surveying, which earns us a license if we pass the exams.

The College provides laptops and software for home study. I'm currently on placement with Mace Construction at the airport, working with architects, project managers and planners. The teachers are supportive and I'm considering a degree apprenticeship or university.

My dream is to become an architect, but I'm also interested in design management. I recommend The Manchester College for its excellent placements and skill-building opportunities.

Sara Pregmolato
T Level in Design, Surveying, and Planning



”

Meet the team

We believe that students generally learn best from tutors who have real-life experience of their subject, so you'll find that most of your tutors will have worked in the construction or engineering industries for several years before joining The Manchester College.



Ella Tsui-Lau
Assistant Principal

Ella has a vast experience successfully managing curriculum areas within Automotive, Construction, Engineering and Logistics at senior leadership level within further education. She works closely with employers and industry boards to ensure that our curriculum aligns with the local, regional and national skills strategy, focusing on priorities such as green technology and future skills. She is passionate about transforming young people's lives, in helping them to build an aspirational and ambitious career to future proof the industry.



Mohammed Mokammel Hoq
Director of Curriculum

Before joining the College as Director of Curriculum, Mohammed held various roles in further education colleges, including Assistant Director and Lecturer.

He has a BSc in Aeronautical Engineering and experience in aviation as a Test Engineer. Since 2001, Mohammed has taught avionics and pursued further qualifications, including an MSc in Educational Leadership.

He is skilled in quality improvement, staff development, and IQA training, and is a member of professional bodies like IfL, RAeS, IET, and EASA.



Bob Devine
Head of Department

Bob began his construction career as a joiner with J Pullan and Sons, working on timber products. In 2009, he started teaching at Leeds College of Building, focusing on developing skilled tradespeople. He joined us as Head of Construction in 2023 and enjoys working with the College community and learners.



Gary Latham
Engineering Course Leader

Gary began his career as an electrical engineering apprentice at 16 with a Swiss printing company.

After completing his HNC, he worked in the food and printing industries. Passionate about student success, Gary supports learners transitioning to employment or higher studies and is enhancing T Level programmes for industry-relevant curriculum.



Warren Cousins
Electrical Installation Course Leader

Warren has over 30 years' experience in the electrotechnical industry, including roles as an electrical tutor and installer, with international experience in Bermuda, the US, Panama, and Jamaica.

His passion, sparked in secondary school, led to a diploma and a Bachelor's degree in Electrical Technology. For 15 years, he's taught Electrical Installation, emphasizing high-quality, learner-focused education.



Scan here
to read more
about our tutors

Our locations

When you enrol on to one of our Construction and Engineering courses, you'll benefit from some of the most technologically advanced training centres in the north west.

You'll be learning in simulated working environments with new, industry standard equipment at our newly developed Openshaw campus in East Manchester. We have 25 specialist construction workshops, including bespoke areas for electrical, brickwork, plastering, plumbing, carpentry and joinery, and painting and decorating. You'll benefit from facilities including an electrical / electronics lab, micro controller, 3D CAD suites with 3D printing facilities, mechanical workshop with milling, turning, welding and CNC.

You can also study a number of Construction courses at our Wythenshawe campus where we have a wide range of high-quality facilities that will enable you to gain all the skills you will require for a future career.



- 1 Openshaw Campus**
Ashton Old Road, Openshaw, Manchester M11 2WH
- 2 Wythenshawe Campus**
Brownley Rd, Wythenshawe, Manchester, M22 9UH

Get career ready with us

We passionately believe in helping you reach your ultimate goal, focusing on your future employability and developing the knowledge, skills and behaviours you will need to have a successful career.

Many of our programmes of study have been co-developed with industry partners. Working so closely with industry partners means you'll benefit from courses that are aligned with current industry skills and demands as well as a range of industry-level activities and lessons.

Once you complete your journey with us you will have the qualifications you need to take the next steps towards an amazing career, as well as the knowledge, skills and behaviours that will help you stand out to future employers.

Study Programmes

We offer qualifications from Level 1 to Level 3, including T Levels.

If you haven't already obtained a Grade 4 GCSE in English or maths, you'll study to work towards achieving this qualification. This is a mandatory requirement and it's also essential you achieve this for many careers.

Employability

To prepare you for your future career, you'll take part in a range of 'employability' activities to equip you with the knowledge and experience of the careers available to you.

You'll be assigned an Employability Co-ordinator and will take part in a wide range of activities that will help you develop the knowledge, skills and behaviours you'll need to thrive in the workplace.

Industry Expertise

You will get the opportunity to take part in masterclasses and lessons delivered by industry experts, visits from guest speakers within the sector and industry-standard projects, that will see you working on the kind of tasks you'd be completing once you begin your career in the construction or engineering industry.

Work Experience or Industry Placement

As part of your course you are required to take on external work experience. We will help you find a suitable placement. While there, you'll help with day-to-day tasks and shadow staff to develop the knowledge, skills and behaviours that are expected in the workplace and broaden your knowledge of the industry.

Previous students have worked with:

- Balfour Beatty
- Lovell Homes
- Morgan Sindall Group
- Wilmott Dixon
- John Sisk & Son.

You may be able to apply for an industry placement offering a longer period of experience with a leading employer, depending on your course.

An industry placement gives you in-depth knowledge of the industry, allows you to gain hands-on experience and gives you an insight into career pathways.

With a placement, you're taking that all important first step onto the ladder; many of our students even go on to gain paid employment with their industry placement employer at the end of the year.

Work Related Activity

There are so many careers in the construction and engineering sector and we want to help you explore as many as possible during your studies.

We organise lots of work-related activities to help you discover more about the opportunities that might be open to you. You could soon be taking part in activities such as:

- Q&A sessions with people employed in the industry
- Guest masterclasses, lectures and workshops led by experts in their field
- Trade fairs to understand career routes and hidden jobs
- 'Careers Days' including taking part in live demonstrations with industry experts
- 'Day in the life' events to understand different career paths and job roles
- Regional and national trips to construction sites.

Study for a Technical Level (T Level) qualification in Construction or Engineering and Manufacturing

T Levels are a new 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 even move on to study a university degree, as T Levels are awarded UCAS points.

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*
- Access to industry standard laptop (as appropriate)
- Automatic enrolment to The Manchester College competitions teams
- Minimum 20% delivery by industry experts
- Minimum 45-day industry placement
- Free branded work wear
- Masterclasses
- Digital upskilling
- Bursary incentive if progressing to UCEN Manchester
- Guaranteed progression to a higher education course at UCEN Manchester*
- Use of industry based software
- And much more.

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



Courses

Level 3 | T Level | Building Services Engineering for Construction (Electrical Installation) | Openshaw | Two Years

Our T Level in Building Services Engineering for Construction (Electrical Installation) is perfect for you if you want to develop a career in construction areas such as electric installation and maintenance.

Over the two years, you'll develop a core understanding of the construction industry and broaden your knowledge of building engineering in areas such as building technology principles, building services engineering systems, maintenance principles and tools, equipment and materials.

You'll also learn all about the principles of electrical science and installing wiring systems and enclosures, putting your knowledge into practice during your industry placement.



Level 3 | T Level | Design and Development for Engineering and Manufacturing (Electrical and Electronic Engineering, and Mechanical Engineering pathways) Openshaw | Two Years

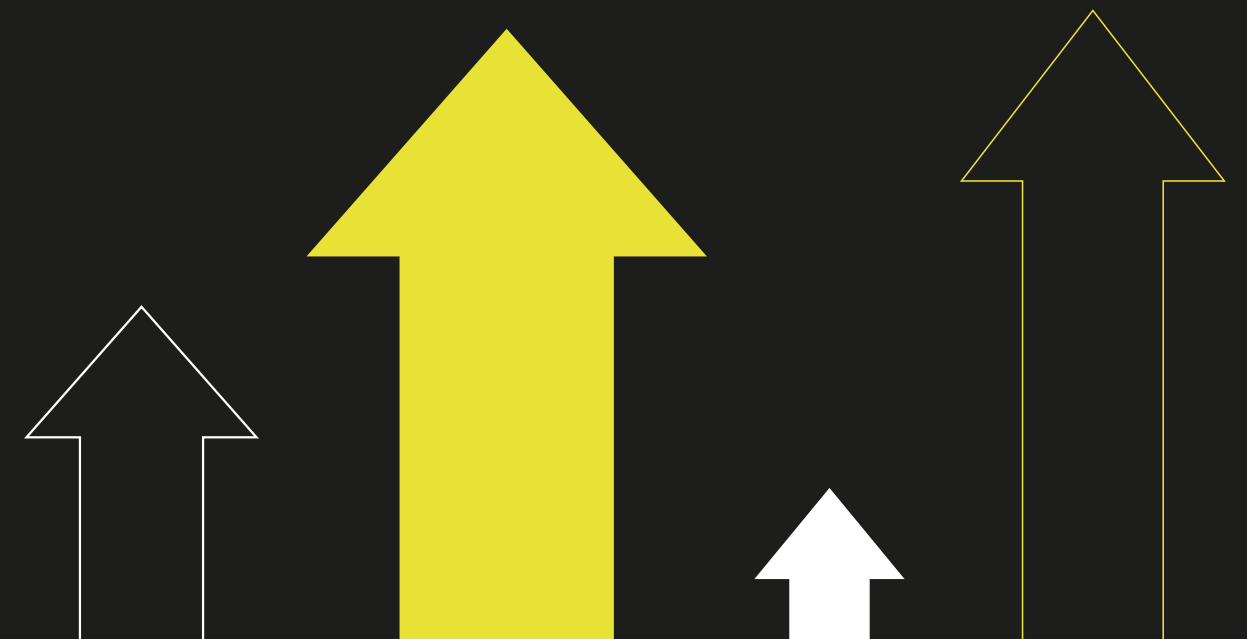
Our T Level in Design and Development for Engineering and Manufacturing is suitable for you if you have a desire to follow a career working in a role such as a design engineer. We provide students with a choice of Electrical & Electronic Engineering Design & Development or Mechanical Engineering Design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

The Electrical and Electronic pathway includes topics like electrical systems design, electronic circuit design, and automation. The Mechanical pathway focuses on mechanical systems, manufacturing processes, and computer-aided manufacturing.

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.

The pathways offered help prepare students for careers in these fields. This course combines academic study with practical experience, focusing on industry-relevant skills and problem-solving. It covers core areas such as engineering principles, project management, health and safety, and business awareness.



**Level 3 | T Level | Design, Surveying and Planning for Construction
(Civil Engineering, and Construction and the Built Environment pathways)
Openshaw | Two Years**

If you want to become a project manager, surveyor or architectural technician in construction, then you'll want to study our T Level in Design, Surveying and Planning for Construction.

During this two year qualification you'll develop a core understanding of the construction industry and working practices. You'll learn all about highly specialised areas such as project management, budgeting and resource allocation, procurement and risk management that are key to being a success in the industry.

The Civil Engineering pathway equips learners with expertise in structural engineering principles, focusing on the design and analysis of load-bearing structures such as bridges, tunnels, and high-rise buildings. Students will develop essential surveying skills for land measurement, alongside knowledge of site management, including cost control, site preparation, and adherence to legal regulations. Additionally, learners will gain insight into the design and development of civil infrastructure projects like roads, railways, and water management systems.

In the Construction and the Built Environment pathway, students will explore modern construction technology and materials, including innovative methods like modular construction. They will also study building services engineering, focusing on electrical systems, plumbing, heating, and ventilation. Alongside these technical skills, learners will develop project management expertise, including budgeting, scheduling, and effective communication with clients and stakeholders, preparing them for success in the construction industry.

You'll have the opportunity to gain experience during your work placement with our industry partners, working on-site to develop your team building skills and learning all about how a construction site and construction project functions.

For those who don't meet the entry requirements and would still like to pursue a T Level, there is the option of a one-year Level 2 T Level Foundation Year.

This Foundation Year will allow you to gain a qualification and move on to study one of our T Levels the following year.

**Level 2 | T Level Foundation Year | Building Services Engineering
(Electrical Installation)
Openshaw | One Year**

If you enjoy working with electrics and are looking for a career with great opportunities for progression, then our Level 2 Building Services Engineering qualification is for you.

You'll learn all about the skills you'll need to apply for jobs in the electrotechnical sector or progress to further education, including the principles of electrical science, how to install wiring systems and enclosures, and the different types of electrical installations technology that you might encounter when you're working out in the sector.

You'll be taught by skilled tutors and benefit from demonstrations and talks by local employers. As the saying goes: "the best way to learn something is to do it yourself", so most of this course is hands-on, allowing you to get to grips with new tools and techniques from your very first week. Upon completion of this T Level Foundation Year, you'll have the opportunity to progress onto our T Level in Building Services Engineering for Construction (Electrical Installation).



Level 2 | T Level Foundation Year | Design and Surveying (Built Environment)
Openshaw | One Year

If you have a sharp, analytical mind and want a job in a highly specialised sector, this course can kick-start your journey towards a great career.

It is focused on teaching you the practical skills you'll need out in the workplace. You'll be practising your new skills in realistic work environments here at the College, as well as on real sites throughout your work placement.

You'll also be building the crucial attributes you'll need to land your first job, such as the ability to work well in a team, plan towards a deadline and follow a set brief. Plus, you'll learn to present information clearly, follow processes and complete any necessary admin. Once you've achieved your Level 2 qualification, you'll be able to progress straight to our T Level in Design, Surveying and Planning for Construction.

Level 2 | T Level Foundation Year | Electronic Engineering
Openshaw | One Year

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.

After finishing this T Level Foundation Year you'll have all the skills and knowledge you'll need to progress onto our T Level in Design and Development in Engineering and Manufacturing.

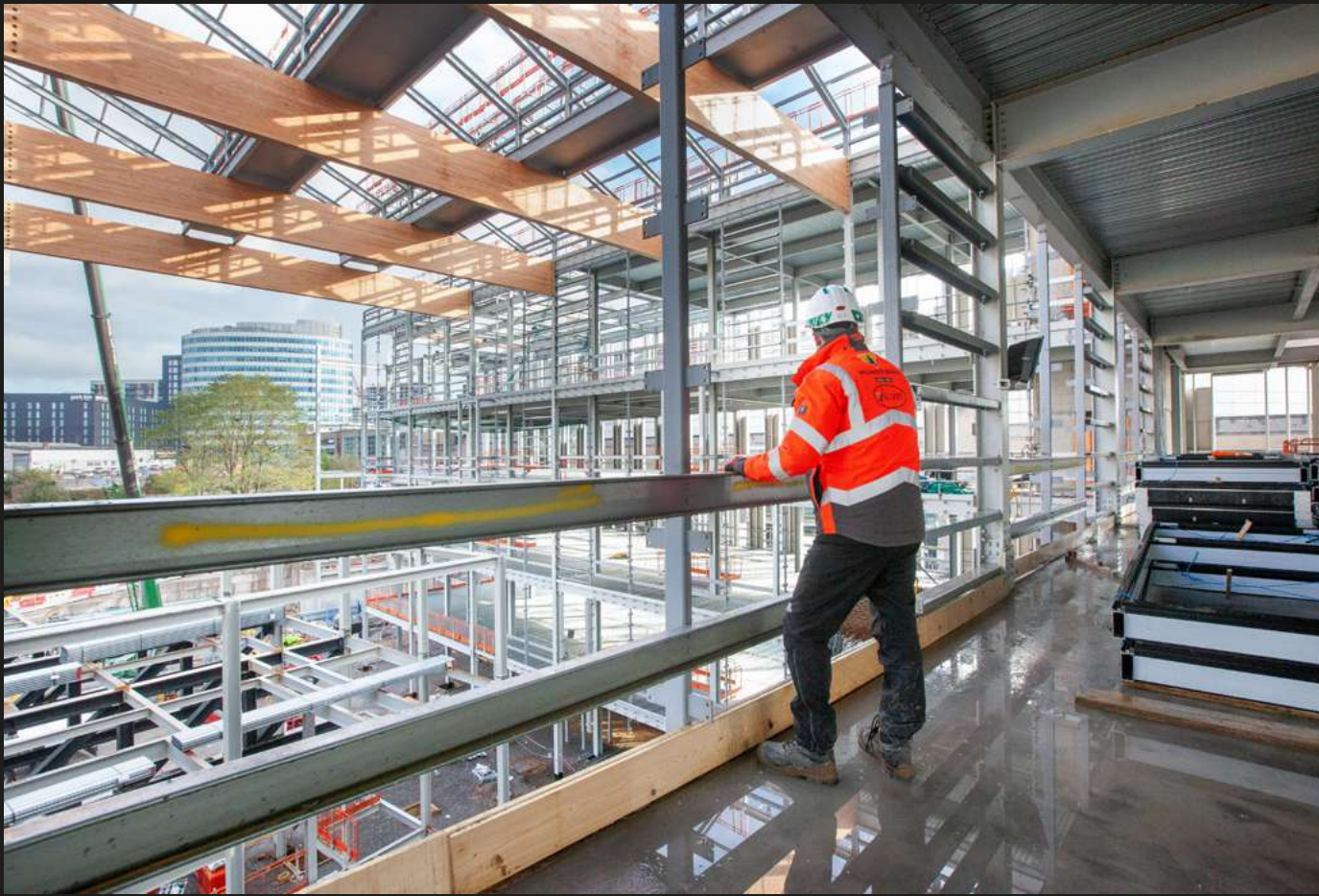


Jump Start To T Levels

Both our T Levels and T Level Foundation Year programmes require you to complete our Jump Start to T Levels programme as an entry requirement.

This programme is a two-week introduction to our T Level and T Level Foundation Year programmes, where you can meet your tutors and experience what studying a T Level at The Manchester College is like.

To apply or find out more about our T Levels and Foundation Year programmes, visit our Industry Excellence Academy website: industry-excellence.tmc.ac.uk/t-levels



Courses

There are so many career paths you can take in the construction and engineering sector. Whether you're aged 16-18 or an adult learner aged 19+, whichever path you're thinking of taking, we can help you to get started on your journey to a career in construction and engineering.

Bricklaying

As a bricklayer, you'd be able to see the results of your hard work for the rest of your life. Our bricklaying courses will teach you everything you need to know, from the craft itself and estimating costs, to working in a safe, professional manner and following an accepted code of practice. You'll also be gaining valuable work experience.

Level 1 Brickwork | Openshaw/Wythenshawe | One Year | 16-18

Level 1 Bricklaying | Openshaw/Wythenshawe | One Year | 16-18

Level 2 Bricklaying | Openshaw/Wythenshawe | One Year | 16-18

Carpentry and Joinery

Are you considering a career as a carpenter or joiner? If you want to learn the essential skills, knowledge and behaviours required by the construction industry and earn a widely-recognised qualification, then these are the courses for you.

Once you complete your course, you could find yourself working on everything from staircases to timber frame buildings. So you'll need to learn a wide range of essential skills during your time with us, including how to carry out first fix flooring, roofing, frames, partitions and stairs. You'll also explore carpentry maintenance and second fixing operations, as well as learning how to set up and operate a circular saw.

Level 1 Carpentry and Joinery | Openshaw | One Year | 16-18

Level 2 Carpentry and Joinery | Openshaw | One Year | 16-18 / 19+

Level 3 Carpentry and Joinery | Openshaw | One Year | 19+

Electrical Installation

Are you fascinated by how electrical systems work? If so, do you want a career building and maintaining electrical installations in machines or structures? These courses can get you started on your journey.

As you progress through the levels, you'll explore a wide range of areas within electrotechnical technology.

You'll be learning the principles of electrical science, as well as getting hands-on practical experience with electrical installations technology. You'll also discover more about what life would be like out in the workplace and what would be expected of you, including how to keep yourself and team mates safe.

If you are aged 16-18, after you complete the Level 1 qualification you can progress onto the T Level Foundation Year in Building Services Engineering (Electrical Installations) and then the corresponding T Level. If you're aged 19+, by the time you reach the Level 3 course, you'll have the basic skills, knowledge and behaviours you need to progress into the workplace.

Level 1 Electrical Installations | Openshaw | One Year | 16-18

Level 2 Electrical Installations | Openshaw | One Year | 19+

Level 3 Electrical Installations | Openshaw | One Year | 19+

Engineering

If you're interested in a career in engineering, this courses is the perfect place to start.

Our Level 1 Engineering courses are for those with an interest in engineering, engineering drawing, CAD and the fundamentals skills and knowledge common to all engineering practices.

Once you've completed your Level 1 course, you'll have a solid understanding of the engineering discipline, and be ready to deepen your understanding and progress onto a T Level Foundation Year at Level 2 , then Level 3 or a T Level in your chosen Engineering discipline (subject to entry requirements).

Level 1 Introductory Certificate in Engineering | Openshaw | One Year | 16-18

Level 1 Civil Engineering | Openshaw | One Year | 16-18

Painting and Decorating

As a painter and decorator, you'd be transforming homes for a living.

Our qualifications will give you the chance to build your skills through hands-on, practical sessions. You'll learn everything from preparing surfaces and applying paint by brush and roller, to erecting and dismantling access equipment and working platforms. You'll also explore specialist decorative finishes and a wide range of other topics.

These qualifications are widely recognised in the construction industry, so will set you on the path to a rewarding career.

Level 1 Painting and Decorating | Openshaw | One Year | 16-18

Level 2 Painting and Decorating | Openshaw | One Year | 16-18

Plastering

Skilled plasterers are always in demand, and these courses will give you the skills and qualifications to set yourself up in business.

As well as learning how to apply plastering materials to interiors, and fix dry linings and plasterboards, you'll explore the other key things you need to know if you're to work as a plasterer. This includes keeping yourself, and others, safe.

As you progress through the courses, you'll expand your knowledge in a number of different areas and have the opportunity to focus on either solid or fibrous plastering. By the time you finish your course, you'll have laid the groundwork for a successful career.

Level 1 Plastering | Openshaw | One Year | 16-18

Level 2 Plastering | Openshaw | One Year | 16-18



Plumbing

Our plumbing qualifications help provide you with a solid understanding of the construction industry, focusing on the plumbing sector. Throughout the course, you will learn to work safely in a practical environment while developing the essential technical skills and professional behaviours required for a career as a plumber.

By the end of the course, you will be proficient in measuring and accurately cutting various materials, jointing and soldering copper pipes, jointing plastic pipes of different sizes, and constructing frames with various materials to meet required tolerances.

You will also be trained in selecting and correctly using the appropriate tools and equipment to install a range of bathroom fittings.

Level 1 Plumbing | Openshaw | One Year | 19+

Level 2 Plumbing | Openshaw | One Year | 19+



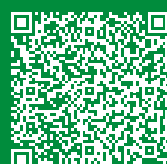
SUPPORTED LEARNING

Promoting independence
through accessibility and
inclusion

Have you received learning support in the past? Do you have an Education, Health and Care Plan or an identified Special Educational Needs or Disabilities (SEND) need? Our Supported Learning team can help students with SEND to achieve their aspirational career goals.

We provide a highly personalised offer for students to create a supportive learning environment for all. Whatever course you choose to study, our provision is specifically designed to support you on your journey to independence and into further education or employment.

Find out more about how we can help you:
tmc.ac.uk/supported-learning



We'll help you Accelerate2industry

As soon as you enrol on a Construction and Engineering course, we'll start talking to you about the opportunities that could be open to you in the future. To guide you through the process and help you achieve your aspirational career goals, we've teamed up with our higher education partner, UCEN Manchester, on an exciting initiative.



Ultimately, the aim of Accelerate2Industry is to help you progress into either higher study, higher education with UCEN Manchester, or your chosen career.

The initiative runs throughout the academic year and there are three distinct phases:

Step 1 - Plan >>>

Find out about the options available to you at the end of your study programme.

Step 2 - Pass >>>

Your tutors will speak to you about what you're planning on doing next year and support you to secure the grades you need to move on to the next phase of your journey.

Step 3 - Progress >>>

Your tutors will ensure that you have all of the information and support you need to re-join us in September or progress on to university, employment or an apprenticeship.

Progressors Award >>>

Do you want to study with a higher education provider that offers something a little bit different and delivers courses that are career focussed and lead you straight into employment? If so, our Progressors Award is just for you.

The award is open to all Level 3 students at The Manchester College that, upon completion of their course, enrol onto a higher education course at UCEN Manchester. The Progressors Award is currently £200. Please check the amount, eligibility, and terms and conditions ahead of making your progressors application to UCEN Manchester during your final year of Level 3 study.

Book a campus tour, taster session or other support session with the UCEN Manchester Outreach Team by contacting HEfutures@ucenmanchester.ac.uk.

Scan for more information, advice and guidance.



DEGREE LEVEL

Once you've completed one of our Level 3 Diplomas you'll have the opportunity to progress onto a degree-level qualification through our higher education partner – UCEN Manchester

You can study one of our construction HNCs part-time:

HNC Construction Management for England - 2 years

or our engineering HNCs, either full or part-time:

HNC Civil Engineering - 1 year

HNC Engineering for England - 1 year



For more information or to apply
visit ucenmanchester.ac.uk



How to apply

Applying to study at The Manchester College is really easy. Just follow these steps and you will be on your journey to amazing in no time.



Step 1

Visit **tmc.ac.uk**



Step 2

Choose a course, apply at an open event, online or mobile



Step 3

Receive a conditional offer - you must accept this within 12 weeks



Step 4

Book to attend an interview



Step 5

Register to attend our New Student Welcome Day on 30 June (16-18 only)



Step 6

We will invite you to enrol in August or September after you receive your results (if applicable)

What's next?

Find out more and apply

To find out more about Construction and Engineering at The Manchester College and to apply scan the QR code or visit: **tmc.ac.uk/construction-engineering**



Visit us

Join us at one of our open events throughout the year to learn more about our courses, tour our facilities, speak to our tutors and much more. To find out when our next open event is taking place and to register your place visit: **tmc.ac.uk/events**

Stay in touch

Follow us on our social media channels:

 **The Manchester College**

 **@TheMcrCollege**

 **@TheMcrCollege**

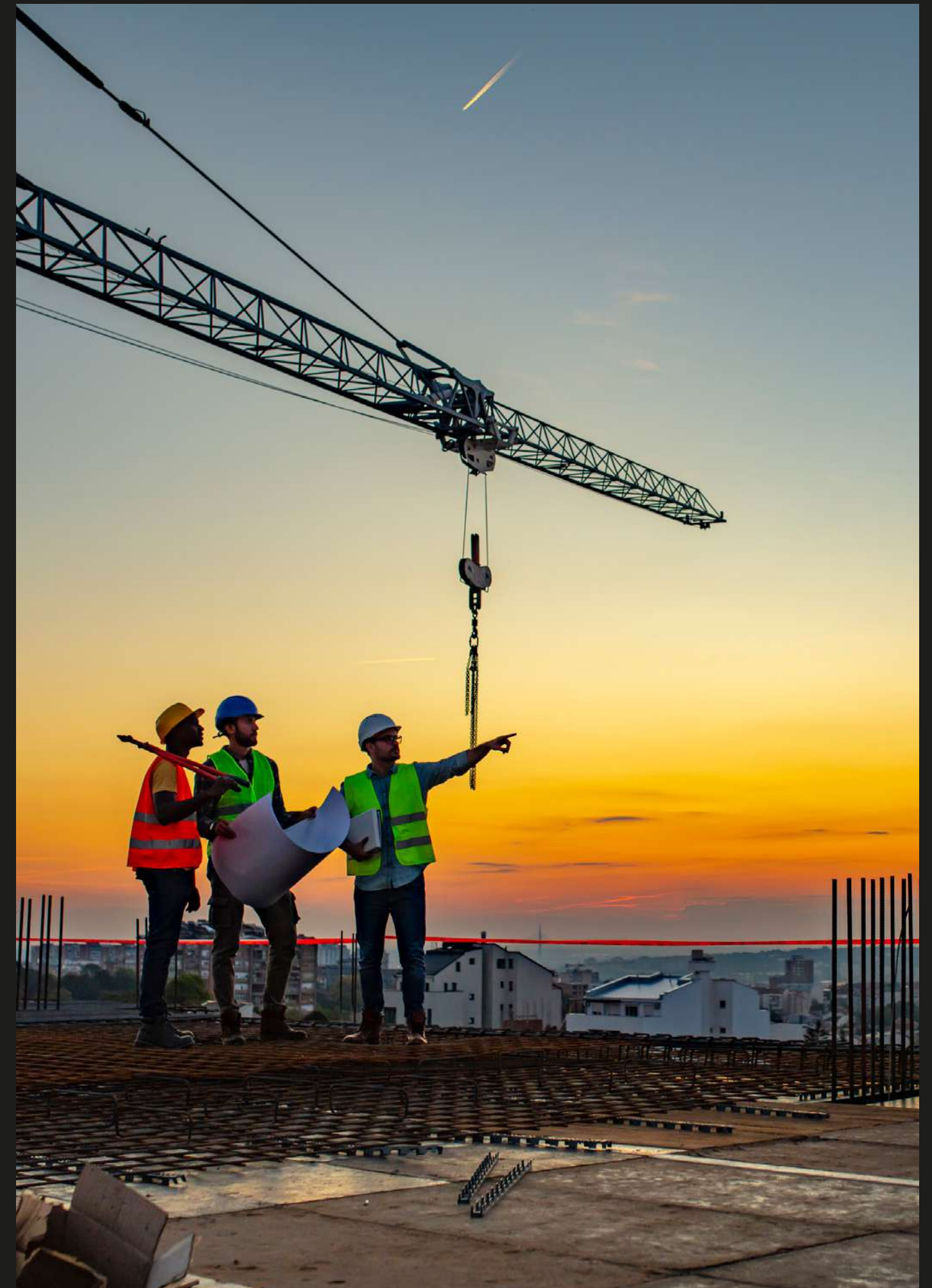
 **@themcrcollege**

Contact Us

Got a question about one of our courses, about The Manchester College or just need to get in touch? Contact us:

 **enquiries@tmc.ac.uk**

 **03333 222 444**





The
Manchester
College®
be amazing



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.