General Enquiries
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HNC Civil Engineering for England (HTQ)

Location	Stockport College
Course Type	University level
Department	Building Services
Start Date	Monday 14th September 2026
Duration	Full-time, 1 Year
Time	00:00:00 - 00:00:00
Fee	£ 8000.00
Course Code	SFQ-HC4H-1100

Course Overview

Civil Engineering deals with the design, construction and maintenance of the physical and naturally built environment, and includes infrastructure projects such as roads, bridges, dams, sewage systems, pipelines and buildings. This Level 4 Higher Technical Qualification (HTQ) provides a broad introduction to construction and different civil engineering functions and is aligned to the Construction Engineering Senior Technician Occupational Standard.

In addition to acquiring knowledge and specialist skills relevant to this profession, you will develop problem solving, commercial, business and interpersonal skills with the aim of being able to perform key civil engineering tasks and understand processes, operations and work effectively in the sector.

This Higher Technical Qualification is delivered as part of the Greater Manchester Institute of Technology (GM IoT), a regional partnership of leading colleges, universities and employers. As a GM IoT student, you will join an industry-focused learning community and may benefit from a range of industry-led learning opportunities. These opportunities can include access to innovative facilities, industry-inspired projects, workplace visits, guest speakers, mentoring, competitions and other activities that help you develop the specialist, in-demand skills required in your chosen sector. The additional opportunities offered through the GM IoT varies based on employer availability and project activity, but membership ensures you are part of a network committed to preparing the region's future technical workforce.

Course Requirements

Whilst applications are considered on an individual basis, they are usually based on a requirement to have 64 UCAS points from either:

A level 3 vocational qualification, GCE A levels or an Access to Higher Education Diploma

GCSE English Language and Maths at grade C/4 or above.

Mature students with relevant experience and/or professional qualifications are welcome to apply and may be invited to interview.

What You Will Learn

As a Civil Engineer you will be expected to make decisions regarding material choices and understand the structural behaviour of materials, testing procedures and perform calculations to establish the performance of materials in use. You will develop an awareness of the design process and be able to produce design propositions and a construction information package for a project. The technologies and processes of civil engineering in the development of highways, bridges and substructures, will be examined so that you can apply this to the design of infrastructure and produce solutions to address hazards and problems encountered in projects. Familiarity with rock types, soils classifications, geotechnical procedures and methods will contribute to your understanding of the design and construction of buildings and infrastructure. You will be given the opportunity to determine and analyse forces within fixed structures and understand the fundamental concepts of structural design.

The development and impact of the construction industry will be explored, as well as the routes to employment and progression. Your knowledge and understanding of the mathematical principles and theories that underpin construction technology, structures and materials will be developed. This will involve the use of analytical and computational methods to solve engineering construction problems, the interpretation of data and application of statistical and calculus techniques. Building Information Modelling, the process of information management through a project life cycle, is explored and will involve the generation of 2D and 3D views of a building model.

Assessment

Students are continuously assessed using a variety of methods including preparation of reports, delivery of presentations, demonstration of skills in practical workshops and through experiments, portfolios and the collation of evidence.

Progression

On completion, you may progress to L5 HND and from there may complete a L6 top-up such as:

BSc (Hons) Structural Engineering
BSc (Hons) Civil Engineering
BEng (Hons) Civil and Infrastructure Engineering

Career Options

On completion, you may consider roles such as:

Civil Engineer
Site Engineer
Geotechnical Engineer
Highway Engineer
Project Manager
Structural Engineer

Mandatory Units

At level 4 you will study:

Construction Design Project (Civil Engineering)
Science and Materials
The Construction Environment
Mathematics for Construction
Civil Engineering technology
Principles of Structural Design
Geotechnics and Soil Mechanics
Digital Applications for Building Information Modelling

Extra Costs Involved

No

Exam Validation Body

Pearson Education Ltd.

Hours Per Week

6 hours for part-time course or 12 hours for full-time course.

How Long To Complete

Two years part-time with one full day attendance per week, or one year full-time with two full day attendance per week.

Programme Structure

Each unit is worth 15 credits and over the course of the programme you will gain 120 credits

Contact Details

For further information please email HEenquiries@tcg.ac.uk

Disclaimer

Although every care has been taken to ensure that the information contained within this document is accurate, there may be changes to this programme and provision. We will endeavour to keep prospective and current students updated where appropriate and when the information becomes available.