



CITY AND ISLINGTON  
COLLEGE

wk<sup>©</sup>

Westminster  
Kingsway College

The College of  
Haringey, Enfield  
and North East London



Capital  
City  
College  
Training

# Engineering - Level 3 National Foundation Diploma

If you're interested in product design, aerospace, manufacturing, electronics, electrical engineering or the automotive industry as a project leader or designer, this course will equip you with the skills and knowledge needed to progress to university or employment.

You will be taught in our modern, bright and airy engineering classrooms, each with new smartboards, alongside our well-equipped workshops with all the hand tools and machine tools you need to get a head start in your engineering career.

The course can also include work placements with many reputable companies around greater London. There are also industry projects to take part in and guest visits from engineers who have designed railway stations, airports and shopping centres.

This BTEC course consists of two separate qualifications. In your first year of study, you will work towards the Level 3 90-Credit National Foundation Diploma. Following successful completion of this qualification, you will be able to progress to the Extended Diploma. Our Extended Diplomas offer equivalent UCAS points to studying 3 A-Levels and will have a progression route to university.

## WHAT WILL I STUDY?

The topics covered in the first year are:

- Unit 01 - Engineering Principles
- Unit 02 - Delivery of Engineering Processes Safely as a Team
- Unit 03 - Engineering Product Design and Manufacture
- Unit 04 - Applied Commercial and Quality Principles in Engineering
- Unit 07 - Calculus to Solve Engineering Problems
- Unit 09 - Work Experience in the Engineering Sector
- Unit 10 - Computer Aided Design in Engineering

The topics covered in the second year are:

- Unit 05 - A Specialist Engineering Project
- Unit 06 - Microcontroller Systems for Engineers

**Start Date:** 2 September 2024

**Duration:** 1 Year

**Attendance:** Full Time

**Location:** Tottenham Centre



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<https://www.capitalccg.ac.uk/conel/course/course-detail/pdf/11773/>

- Unit 08 - Further Engineering Mathematics
- Unit 17 - Power and Energy Electronics
- Unit 19 - Electronic Devices and Circuits
- Unit 28 - Dynamic Mechanical Principles in Practice
- Unit 31 - Thermodynamic Principles and Practice
- Unit 41 - Manufacturing Secondary Machining Processes

## WHAT WILL I NEED?

You will need:

- Three GCSE's at grade 4 or above, including English Language, Maths and Science (Combined Science, or two individual Sciences) or an equivalent Level 2 qualification at Merit (and Functional Skills in English and Maths at Level 2).

All applicants must have an interview and assessment to confirm that the course is suitable for them.

## HOW WILL I BE ASSESSED?

Assessment is continuous throughout the year through completing written assignments and projects as well as and performing practical work that is assessed internally within the college. There will also be some written examinations, assessed externally via Pearson, the BTEC awarding body.

## WHAT WILL IT COST?

AGED 16-18

If you will be aged 16, 17 or 18 on 31st August prior to the start date of your course and you have the legal right to remain in the UK for the duration of your programme then your study with us will be free. Please see [here](#) for the documents you will need to show us.

Some courses will have other associated costs, such as for specialist materials and trips. Many of our students are eligible for financial support, see [here](#) for details.

ADULTS - LEVEL 3

If you will be aged 19 to 23 prior to the start date of your course, and do not already have a full Level 3 qualification, you may be eligible for a Level 3 entitlement, in which case your study with us will be free. If you are older, or already have a Level 3, we have many other Level 3 courses that are also [free](#) to study. Otherwise, you will have to pay the fees yourself or apply for an [Advanced Learner Loan](#).

Please see [here](#) for the documents you will need to show us.

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## WHAT CAN I DO AFTER?

On successful completion of this course, you will progress onto the Level 3 Extended Diploma in Engineering or you are able to apply for an Engineering Apprenticeship.

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