



BTEC Higher National Certificate (HNC) in General Engineering - E154

If you are only applying for one course which is at Wirral Met, you can apply online. If you are applying for more than one course outside of Wirral Met, you must apply via UCAS.

This course provides technical knowledge and higher level skills in team leading, report writing, project management and presentation skills. It reflects the changing needs of the engineering industry.

This General Engineering course is taught at our multi-million pound Twelve Quays campus in Birkenhead.

COURSE DETAILS

Students must undertake a total of eight units to achieve a HNC in Mechanical Engineering; consisting of four mandatory core units, two mandatory specialist units and two optional units. A list of these can be found below.

Core:

- Engineering Design
- Engineering Maths
- Engineering Science
- Managing a Professional Engineering Project

Specialist:

- Mechanical Principles
- Fundamentals of Thermodynamics and Heat Engines

General Optional Unit Bank (Level 4) that may be delivered include:

- Renewable Energy
- Mechatronics
- Machining and Processing of Engineering Materials
- Mechanical Principles*
- Materials, Properties and Testing
- Mechanical Workshop Practices
- Fluid Mechanics
- Engineering Management
- Fundamentals of Thermodynamics and Heat Engines*
- Production Engineering for Manufacture*
- Automation, Robotics and Programmable Logic Controllers (PLCs)
- Instrumentation and Control Systems
- Quality and Process Improvement*
- Maintenance Engineering
- Electrical and Electronic Principles*
- Digital Principles
- Electrical Machines
- Electronic Circuits and Devices*
- Computer Aided Design and Manufacture (CAD/CAM)
- Electro, Pneumatic and Hydraulic Systems
- Operations and Plant Management
- Electrical Systems and Fault Finding
- CAD for Maintenance Engineers

*Optional Unit also available as a Specialist Unit.

If applicable, the College can deliver Optional Units flexibly, according to the needs or choice of your employer. (Note: If the student has no prior practical experience then it is recommended that 'Mechanical Workshop Practices' is the selected optional unit.)

Detailed descriptions of all units, which also include recommended resources for that unit, can be found via [Pearson's website](#).

ENTRY GUIDELINES

Level 3 Extended Diploma in Engineering or A-Level Maths and Science

Relevant vocational, work based experience/learning demonstrated by a work reference or CV

If English is not your first language, you may need an assessment before enrolling on this course. To discuss further, please contact the ESOL department on 0151 551 7144.

EQUIPMENT REQUIRED

Laptop (capable of running specialist software such as AutoCAD Inventor)

ASSESSMENT METHOD

For each unit studied, students will be assessed through written assignments given at relevant points throughout the course. This may include a course work element depending on the particular module being taught. Further information on meeting passing criteria can be found via [Pearson's website](#)

ADDITIONAL INFORMATION

For timetabled sessions, students will be based at the College's Twelve Quays Campus. The College's term dates are available on its website. However, these may differ according to the programme's assessment calendar. Assessment calendars and timetables of study are typically available in respective course handbooks, accessible through the College Virtual Campus following enrolment.

Fees are to increase to £3270 per year for 23/24 entry, subject to approval.

WHERE CAN I PROGRESS TO?

Employment in all areas of industry in engineering related jobs at both technical and first line or middle management level. Successful completion of HNC would give advanced standing of the first year of most engineering degrees

Explore potential careers via [Career Match](#) — it provides current local data on wages and employment prospects.

WHEN DOES THIS COURSE RUN?

CAMPUS	ATTENDANCE	COURSE CODE	PLANNED TIME TABLE
	Part Time	E154P001	

If you are aged 19 or over:

Fee : £3270.00

Please note, this fee is the cost per year. For Higher Education (HE) courses, student loans are available to most students undertaking a degree, foundation degree, HNC / HND or teacher training programme. Visit <https://www.gov.uk/browse/education/student-finance> for details.

For advice and guidance, please contact Student Services via our [online enquiry form](#)

This information was current on 03rd July, 2024 and may be subject to change.