

Engineering

HN Flex Engineering - Engineering Design (Unit 4001)

In Brief

Start Date / Duration

This course is planning to start in September and will take 15 weeks to complete. Days and times tbc.

Entry Requirements

You must have GCSE grades at 4/C or above (or equivalent) in Maths and English.

You will also need one of the following

- A BTEC Level 3 qualification in an engineering or construction subject
- A-Level or Access to Higher Education qualifications
- Relevant Industry work experience

Equivalent international qualifications for the above will also be accepted.

You will achieve

On completion of the Pearson HN Flex unit, you will be gain 15 credits towards the Higher National Certificate in Engineering for England.

Course Overview

HN Flex modules are a great option for anyone who wishes to increase their skills and knowledge without committing to studying for an entire qualification. In this course you will complete a 15-credit unit within the Engineering HNC, which can lead towards a Higher Technical Qualification on complete of both the HNC and HND.

This single unit offers an insight to a cutting-edge programme aimed at those who are eager to upskill and follow a career in various job roles within the Engineering sector. Through this unit you will be introduced to the methodical steps that engineers use in creating functional products.

This course is delivered as part of the South Yorkshire Institute of Technology (SYIoT).
[<https://www.barnsley.ac.uk/syiot/>]

Course Content

Design can turn an idea into a something useful and a problem into a solution. Engineers need a sound understanding of the design process, and this unit will increase your knowledge and skills. Among topics studied in this unit, you will explore critical path analysis, market analysis, design project management, safety and risk, calculations, drawings and concepts, and ergonomics.

By the end of the unit you will be able to:

- Plan a design solution and prepare an engineering design specification in response to a design brief
- Create possible technical solutions to address design specifications
- Prepare an industry-standard engineering technical design report
- Present to an audience a design solution

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How will I be assessed?

There will be a range of assessment methods used through practical application, which may include practical sessions, essays, reports, presentations and projects.

What Equipment Will I Need?

All equipment will be provided.

Where will I study?

Science, Technology, Engineering and Maths (STEM) Centre
Old Mill Lane
Barnsley
S70 2LA

What can I do next?

You can study another HN Flex unit (HN Flex Engineering – Engineering Maths (Unit 4002) | Barnsley College [<https://www.barnsley.ac.uk/course/hn-flex-engineering-engineering-maths-unit-4002/>]), or progress on to the full HNC Engineering for England course. [<https://www.barnsley.ac.uk/course/engineering-for-england-higher-national-certificate-hnc-htq-full-time/>]

How much does the course cost?

Each individual unit costs £750

Extra information

Contact the Information Unit

For further information please contact our friendly Information Team on +44 (0)1226 216 123 or email info@barnsley.ac.uk [mailto:info@barnsley.ac.uk]

Disclaimer

Please note we reserve the right to change details without notice. We apologise for any inconvenience this may cause.

Last updated: 19th June 2024

Want to apply?

Visit <https://www.barnsley.ac.uk/apply> to get started
Call us on **01226 216 123**