



Introduction to Engineering (Full-Time)

Designed to be taken over one year for learners who are interested in becoming an engineer, giving learners the opportunity to develop a broad range of life skills and hands on experience in one or several contexts and supporting progression to further study.

Areas include developing skills for learning, where learners will identify skills required for Engineering, reflect upon them and set goals.

Gain skills required to become an effective team member.

Learn to investigate, source, explore, organise and share information about Health and Safety within engineering.

Learners will design a product, create prototypes using computer aided design and 3D printing technology and software as part of the process. Gain workshop skills in Mechanical Engineering and welding to create and test your product.

Finally learners will gain skills in problem solving to overcome issues faced within the Engineering environment.

You will be given the opportunity to visit a typical engineering industry.

You will have access to state-of-the-art facilities and work alongside our experienced staff who will guide you in honing your skills and pursuing your passions.

By studying engineering at NPTC group, you will be part of a community of problem solvers and future innovators who are dedicated to making a positive impact on society.

Learners may study for English and/or mathematics at the same time.

Entry Requirements

4 GCSEs of E and above. Students must attend Mathematics and/or English GCSE resit classes that will run alongside their full time programme.

Coleg Afan
Coleg Bannau Brycheiniog
Academi Chwaraeon Llandarcy
Canolfan Ragoriaeth Adeiladwaith Maesteg
Coleg Castell-nedd
Coleg Y Drenewydd
Coleg Pontardawe
Canolfan Adeiladwaith Abertawe

Afan College
Brecon Beacons College
Llandarcy Academy of Sport
Maesteg Construction Centre of Excellence
Neath College
Newtown College
Pontardawe College
Swansea Construction Centre





Career Prospects

Students can continue their studies and progress onto full time level 1 engineering programme

Course Modules

Introduction to Engineering, E3- Skills for learning- identify skills required for engineering reflect and set goals,

Team challenge develop skills to become an effective team member, Investigating a topic, designing a product using computer aided design, creating a product using machining, fitting and welding techniques, preparing and organising a visit to an engineering facility, Using industry related technology such as Computer aided design and 3D printing to aid with the designing and developing of the product.

Developing problem solving skills to overcome maintenance issues in engineering.

Assessment

This course requires continual assessment of practical observations, quality checks of engineered components and college based assignments which will be collated as portfolio evidence to meet the needs of the awarding body.

Short written assignments and online examinations are scheduled at key stages throughout the course.

Extra numeracy and communications sessions with an additional group tutorial for support throughout this course.

Additional Costs

Safety boots, welding mask, flame resistant overalls, safety glasses, note book.

STUDY MODE

FT

LOCATION

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☎ 0330 818 8100

✉ enquiries@nptcgroup.ac.uk

🌐 www.nptcgroup.ac.uk





COURSE LENGTH

1Y

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