

# Engineering Centre of Excellence



**Interested in Engineering? Want a very highly paid job and career progression that can take you right to the top? Want to 'Earn as you Learn' and still go to university to do a Degree?**

**If the answer to any of these questions is a definite YES! Then, Powerskills UK want to hear from you.**

Powerskills UK is the premier engineering training provider for Apprentice Engineers and Electricians in Yorkshire and the Humber. Based at the new £35m campus at top-performing Selby College, Powerskills UK has considerable links with local, regional, national and international employers. We specialise in providing training to Apprentices who want a rewarding career in Engineering. No matter whether you are interested in working for a local power station, want to work on a wind turbine in the North Sea or one of a huge and varied range of engineering organisations operating across the world, Powerskills UK is the place to start your training.



## What kind of people are we looking for?

Have you always been good with your hands? Do you have an interest in how things work or perhaps you're someone who deliberately breaks things, taking them to bits, putting them back together again to make them work and if you get the chance, improve them? If this sounds all too familiar, then you already have the traits to make a good Engineer.

Engineering isn't just about being good with your hands and great at maths – but these two abilities help. Engineering is about how ingenious you are in identifying a problem and coming up with a workable solution.

If you want to find out about the range of Powerskills UK Engineering courses currently available, take a look through the next few pages of this booklet.

**Don't miss your chance to train towards a very bright future.**

LEVEL 1 CERTIFICATE IN

## Electrical Engineering

Duration: 1 year

Course Level: 1

Assessment: 90% Coursework, 10% Test

Entry Requirements: At least a grade E in GCSE English, Maths and Science

This one year course mimics the working situation by using machinery tools and equipment representative to industry standards.

The course is particularly suitable for you if:

- You wish to become an Electrical Engineer.
- You are thinking about Electrical Engineering as a career but would like some experience of the job role first, or wish to learn new skills.

### Your Course

#### Certificate in Performing Engineering Operations

Mandatory Units:

- Working Safely in an Engineering Environment
- Working Efficiently and Effectively in Engineering
- Using and Communicating Technical Information

Additional Units:

- Wiring Electrical Equipment and Circuits
- Assembling Electrical Wiring Support Systems

#### Certificate in Engineering and Technology

- Understanding Working in Engineering
- Understanding Electrical Installation

You will have an initial interview and must complete assessment prior to acceptance on the course.

### Your Future

On successful completion, you will be ideally placed to enter into employment in one of the sectors and study for an Apprenticeship in your chosen field. If an Engineering Apprenticeship cannot be found you may be able to enrol on the Full Time BTEC Level 2 Diploma in Electrical Engineering.

BTEC LEVEL 2 DIPLOMA IN

## Electrical & Electronic Engineering

Duration: 2 years

Course Level: 2

Assessment: 100% Coursework/Practical

Entry Requirements: Four GCSEs at grade D or above, including English, Maths and Science

This one year course is designed to allow you to gain a good grounding and develop skills within the Electrical and Electronic Engineering sector.

The course is particularly suitable for you if:

- You wish to become an Electrical Engineer.
- You are thinking about Electrical Engineering as a career but who would like some experience of the job role first, or wish to learn new skills.

### Your Course

Mandatory Units:

- Working Safely and Efficiently in Engineering
- Interpreting and Using Engineering Information
- Mathematics for Engineering Technicians

Specialist Units:

- Applied Electrical and Mechanical Science
- Electronic Devices and Communication Applications
- Electronic Circuit Construction
- Operation and Maintenance of Electrical Systems and Components

In addition, you will be expected to successfully complete a two week work placement.

### Your Future

On successful completion, you may be able to find employment in one of the sectors and study for an Apprenticeship in your chosen field. If a Mechanical Engineering Apprenticeship cannot be found you may be able to enrol on the Full Time BTEC Subsidiary Diploma in Electrical Engineering.



# I FOUND... ... A CAREER AT DRAX POWER STATION

Developing links with key local businesses is crucial for securing future employment opportunities for students and this is something that *Powerskills UK* takes very seriously.

Through its work with suppliers in the power industry, *Powerskills UK* helped around 32 local Engineering students in 2012, to secure employment or further training with companies like Drax Power Station, Doosan Power Systems, TATA Steel, OMEC Engineering and the United States Navy, to name but a few.

The successful students had to beat off fierce competition to secure their positions, but their efforts have been rewarded with a fulfilling career that will see them develop into craftsmen and professional engineers, boasting rapid career advancement and large salaries to match.

Meanwhile the *Powerskills UK* team continues to build on its relationships within the industry to ensure it can deliver quality people into the workplace and maintain its first-class reputation.

## CELEBRATING SUCCESS

Level 2 & Level 3  
Engineering Students

Class of: 2012

Studied: **Engineering**

Doing What? **Working in a variety of roles across the industry**



BTEC LEVEL 3 IN

## Electrical Engineering

Duration: 2 years

Course Level: 3

Assessment: 100% Coursework/Practical

Entry Requirements: Five GCSEs at grade C or above, including English, Maths and Science

This one year course is designed to allow you to gain a good grounding and develop skills within the Electrical Engineering sector to gain the skills and knowledge required by industry.

The course is particularly suitable for you if:

- You wish to become an Electrical Engineer.
- You are thinking about Electrical Engineering as a career but would like some experience of the job role first, or wish to learn new skills.

### Your Course

#### BTEC Subsidiary Diploma

Mandatory Units:

- Working Safely and Effectively in Engineering
- Electrical and Electronic Principles

#### NVQ Performing Engineering Operations

Mandatory Units:

- Working Safely in an Engineering Environment
- Working Efficiently and Effectively in Engineering
- Using and Communicating Technical Information

Specialist Units:

- Wiring and Testing Electrical Components and Circuits
- Assembling, Wiring and Testing Electrical Panels/ Components Mounted in Enclosures
- Electrical CAD

In addition, you will be expected to successfully complete a two week work placement.

### Your Future

On successful completion, you will be ideally placed to enter into employment in one of the sectors and study for an Apprenticeship in your chosen field. If an Electrical Engineering Apprenticeship cannot be found you may be able to enrol on the Full Time Level 3 Extended Diploma.

LEVEL 1 CERTIFICATE IN

## Mechanical Engineering

Duration: 1 year

Course Level: 1

Assessment: 90% Coursework, 10% Test

Entry Requirements: At least an E grade in GCSE Maths, English and Science

This one year course mimics the working situation by using machinery, tools and equipment representative to industry standards.

This course is particularly suitable for you if:

- You wish to become a Mechanical Engineer.
- You are thinking about Mechanical Engineering as a career but would like some experience of the job role first, or wish to learn new skills.

### Your Course

#### Certificate in Performing Engineering Operations

Mandatory Units:

- Working Safely in an Engineering Environment
- Working Efficiently and Effectively in Engineering
- Using and Communicating Technical Information

Specialist Units:

- Centre Lathe Turning
- Milling Machining
- Welding

#### Certificate in Engineering and Technology

- Understanding Working in Engineering
- Understanding Machining Engineering Materials
- Understanding Joining Engineering Materials

In addition, you will be expected to successfully complete a two week work placement.

### Your Future

On successful completion, you will be ideally placed to enter into employment in one of the sectors and study for an Apprenticeship in your chosen field. If an Engineering Apprenticeship cannot be found you may be able to enrol on the Full Time BTEC Level 2 Diploma in Mechanical Engineering.





BTEC LEVEL 2 DIPLOMA IN

## Mechanical Engineering

Duration: **2 years**

Course Level: **2**

Assessment: **100% Coursework/Practical**

Entry Requirements: **Four GCSEs at grade D or above, including English and Maths**

This one year course is designed to allow you to gain a good grounding and develop skills within the mechanical engineering sector.

This course is particularly suitable for you if:

- You wish to become a Mechanical Engineer.
- You are thinking about Mechanical Engineering as a career but would like some experience of the job role first, or wish to learn new skills.

### Your Course

Mandatory Units:

- Working Safely and Efficiently in Engineering
- Interpreting and Using Engineering Information
- Mathematics for Engineering Technicians

Specialist Units:

- Applied Electrical and Mechanical Science
- Selecting Engineering Materials
- Application of Welding Processes
- Fabrication Techniques and Sheet Metal Work
- Engineering Marking Out

In addition, you will be expected to successfully complete a two week work placement.

### Your Future

On successful completion, you will be ideally placed to enter into employment in one of the sectors and study for an Apprenticeship in your chosen field. If a Mechanical Engineering Apprenticeship cannot be found you may be able to enrol on the Full Time BTEC Subsidiary Diploma in Mechanical Engineering.



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Our established links with many Power, Engineering and Construction sector employers demonstrates the need for organisations to continually seek out high quality training for their workforce that meets their current and future needs.

skills

POWER



BTEC LEVEL 3 IN

## Mechanical Engineering

Duration: 2 years

Course Level: **3**

Assessment: 100% Coursework/Practical

Entry Requirements: **Five GCSEs at grade C or above, including English, Maths and Science**

This one year course is designed to allow you to gain a good grounding and develop skills within the Mechanical Engineering sector to gain the skills and knowledge required by the industry.

The course is particularly suitable for you if:

- You wish to become a Mechanical Engineer.
- You are thinking about Mechanical Engineering as a career but would like some experience of the job role first, or wish to learn new skills.

### Your Course

#### BTEC Subsidiary Diploma

Mandatory Units:

- Working Safely and Effectively in Engineering
- Mechanical Principles and Applications

#### Performing Engineering Operations

Mandatory Units:

- Working Safely in an Engineering Environment
- Working Efficiently and Effectively in Engineering
- Using and Communicating Technical Information

In addition, you will be expected to successfully complete a two week work placement.

### Your Future

On successful completion, you will be ideally placed to enter into employment in one of the sectors and study for an Apprenticeship in your chosen field. If a Mechanical Engineering Apprenticeship cannot be found you may be able to enrol on the Full Time National Diploma Level 3 Extended Diploma.

BTEC LEVEL 3 EXTENDED DIPLOMA IN

## Engineering (Mechanical & Electrical)

Duration: 2 years

Course Level: **3**

Assessment: 100% Coursework/Practical

Entry Requirements: **BTEC Subsidiary Diploma in either Electrical or Mechanical Engineering**

This one year course will give you the experience and recognised qualifications to pursue an engineering career or continue on to Higher Education. It is highly regarded by universities since it combines significant academic content with applied and relevant technology subjects.

### Your Course

Dependant on which Subsidiary Diploma route you have taken (Electrical or Mechanical) you will take a selection from the following units:

Mandatory Units:

- Communications for Engineering Technicians
- Engineering Project
- Electrical and Electronic Principles or Mechanical Principles and Applications

Specialist Units:

- Engineering Design
- Electro-Pneumatics and Hydraulic Systems
- Fabrication Processes and Technology
- Welding Technology and Principles
- Further Mathematics for Engineering Technicians
- Electrical Installation

In addition, you will be expected to successfully complete a two week work placement.

### Your Future

On successful completion, you will be ideally placed to enter into employment in one of the sectors and study for a Traineeship or Apprenticeship in your chosen field. You also have the option to enter Higher Education either through college or university.





For more information, contact **Powerskills UK**

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