

## **SCHOOL FOR ENGINEERING**

### **ELECTRICAL ENGINEERING SKILLS NVQ LEVEL 2**

#### ***Is this the right course for me?***

This course is designed to provide opportunities for students not yet in employment to develop their knowledge and understanding, and gain broad based practical skills. The elements of the course are designed to provide the training required by apprentices in electrical engineering work, which forms the basis of an apprenticeship within the industry.

#### ***What will I need to join the course?***

You should have a keen interest in following a career in electrical engineering. You will have to successfully complete an Initial Assessment, and also possess 3 GCSE's at Grade C or above (e.g. Mathematics, Science + another). The course is open to all people with an interest in electrical engineering. You will certainly be a person with both practical and technical abilities.

#### ***What will I be doing?***

City and Guilds 2330 Level 2 Certificate in Electro technical Technology and NVQ Level 2 in Performing Engineering Operations (Broad-based option). These courses will develop existing practical skills, and relevant technical knowledge for the safe use of materials and equipment in the following areas:

#### **City and Guilds 2330 Level 2 Certificate in Electro technical Technology**

You will be tutored in the following topics in preparation for the assessments required for your technical certificate.

- Health and Safety (Electrical)
- Direct Current (D.C.) circuit principles
- Alternating Current (A.C.) circuit principles
- Rotating machinery
- Electrical Installation
- Electrical Maintenance

#### **Performing Engineering Operations NVQ II Units**

You will follow a work-related programme, which will give you an understanding of the engineering principles and the practical skills required by the modern tradesperson. You will be involved in classroom study, but also involved in workshop activities in wiring and testing Programmable Logic Controllers, fabrication and sheet metal work and machining to demonstrate your practical abilities. In addition you will maintain a portfolio of your activities to provide the appropriate evidence on the following:

- Health and Safety
- Working effectively and efficiently in engineering
- Using and communicating technical information

- Wiring and testing programmable controller based systems
  - Preparing and using lathes for turning operations
  - Producing sheet metal components and ass
- \* Functional Skills in number, communications or ICT    \*Regular Tutorial sessions

Students must pass all parts of the first year before applying to go onto the second year.

In the second year you will continue to gain further experience in college to enable you to complete the assessments for the City and Guilds 2330 Level 2 Certificate in Electro technical Technology and for the NVQ Level 2 PEO.

***How will my progress on the course be assessed?***

Work is assessed with practical tasks, and end of unit theory assessments.

***How long will the course last and what patterns of attendance are available?***

The course lasts 2 years and attendance is 15 hours per week.

***What will I achieve?***

You should gain, on successful completion of the course, City and Guilds 2330 Level 2 Certificate in Electro technical Technology and an NVQ Level 2 in Performing Engineering Operations. You will also have the knowledge and skills to enable you to seek employment in the electrical engineering industry.

***What will it cost?***

All fees change each academic year depending on funding. Please speak to student services for any updates.

Students under 19 do not pay tuition or exam fees.

You will need to provide protective clothing and safety boots/shoes and course books that will be advised by the course tutor.

***And the future?***

The type and scope of work within the engineering industry is so varied that your future will depend on your skills, preferences and the opportunities available. The College offers the opportunity to enter into employment through the Apprenticeship Programme.

Depending on your progress on the Skills course you may complete your apprenticeship at an accelerated pace.

***What should I do now?***

If you wish to be interviewed for a place on this course please complete an application form and return it to the **Reception or The Advice Centre**.

If you have any queries please ring **The Advice Centre** on **freephone 0800 854 695**

*It is the policy of this College that everyone is entitled to equality of opportunity in education and training.*

*Please note that all the details on this fact sheet were correct at the time of printing and may be subject to change.*

If you would like this factsheet in larger print or alternative format e.g. Braille or audio tape, please contact Study Skills Support on (01502) 525191

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