

THE CBE DIPLOMA

FOUNDATION LEVEL UNITS

A GUIDE FOR LEARNERS

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What is the CBE Diploma?

The CBE Diploma will introduce you to the exciting and diversified Construction and Built Environment Industry giving you a unique insight which will allow you to make an informed choice about your future career. As well as understanding the theory behind the Construction Industry, learners will learn practical skills and develop an ability to solve problems both individually and as part of a team. The course is designed to be interesting, relevant to modern construction methods and to open up a wide range of educational, training and career opportunities

What does the course involve?

Compulsory Units...

CBE Diploma learners will complete a series of compulsory and optional units, designed to give them the knowledge, skills and experience. The foundation level units have been summarised on the following pages of this booklet.

Work experience...

Diploma learners will do a minimum of 10 days work experience. They will also get the chance to learn from and be mentored by professionals working in their chosen field

The learner project...

All Diploma learners will complete a project to demonstrate the skills and knowledge they have acquired. Learners can choose their own project. For example learners might design a water pump for use in a developing world country.

English, maths and ICT...

All Diploma learners need to achieve a minimum standard in English, Maths and ICT. These subjects are studied as part of the Diploma and will be taken as a GCSE alongside it

Personal Learning and Thinking Skills...

Mastering essential life and work skills is crucial in today's competitive market.

All Diploma learners are encouraged to develop skills like teamwork and self management as part of their course. They will learn to express themselves confidently and how to apply their knowledge and skills creatively in a business environment

What could the Diploma lead to?

The Diploma is designed to broaden a young person's horizons and give them a wide range of next-step options. The Progression and Advanced Diploma could both lead onto college or university or to further training and employment. Learners who have completed a foundation or Higher Diploma in Construction and The Built Environment might choose to go on to do a Progression or Advanced Diploma or perhaps to do 'A' levels. They could also decide to start an Apprenticeship or take a job with further training

A Diploma in CBE does not mean learners have to pursue a career in the Construction Industry. A Diploma gives a learner relevant and transferable skills that will be welcomed by colleges, universities and employers

THE CBE DIPLOMA - FOUNDATION LEVEL

Unit 1:

Design the Built Environment: Design Influences

Internally assessed

In this unit you will be introduced to the key social, economic and infrastructure factors influencing design, and you will learn how planning of the built environment impacts on design. You will come to understand the need for sustainability and environmental protection, and learn about the properties and uses of a range of construction materials and their impact on the design of the built environment.

Learning outcomes

On completion of this unit a learner should:

LO.1.1 Know how designs are influenced by human and physical factors

LO.1.2 Understand the basic need for planning

LO.1.3 Understand the basic need for sustainability and environmental protection

LO.1.4 Be able to describe the properties and uses of typical construction materials.

Unit 2:

Design the Built Environment: Applying Design Principles

Internally assessed

In this unit you will gain knowledge and understanding of the reasons why a range of structures are designed in the way they are, and will apply this understanding to the design of a simple structure. In doing so, you will investigate the range of job roles and career opportunities available to those involved in the design of the built environment.

On completion of this unit a learner should:

LO.2.1 Know why structures are designed as they are

LO.2.2 Be able to sketch and model a simple structure from a brief and describe it to a client

LO.2.3 Understand the job roles, career opportunities and progression routes, and the importance of teamwork, within the construction design sector.

Unit 3:

Create the Built Environment: Using Tools

Internally assessed

In this unit you will gain a basic knowledge and understanding of a range of written and technical information, tools and skills used at craft level. You will develop an understanding of the major requirements for health and safety and environmental protection, and will select appropriate personal protective equipment, apply safe working techniques and use a range of tools, materials and equipment to carry out simple practical activities in a selected craft area. You will complete an assessed practical activity in a craft area selected from the task/activity detailed within this unit.

On completion of this unit a learner should:

LO.3.1 Know about and be able to discuss and describe the basic requirements for health and safety and environmental protection

LO.3.2 Know about, use and be able to improve own use of safe working practices to undertake basic operations

LO.3.3 Understand and apply a range of basic technical information

LO.3.4 Be able to safely use a basic range of hand tools to produce a simple product.

**Unit 4:
Create the Built
Environment:
Methods and
Materials**

Externally assessed

In this unit you will explore the ongoing changes in construction methods and materials, and will develop an understanding of the use of sustainable materials and processes. You will also explore and develop knowledge and understanding of the job roles available to those who construct the built environment, together with their relationships and career progression routes.

Learning outcomes

On completion of this unit a learner should:

LO.4.1 Know about modern construction methods, materials and techniques

LO.4.2 Understand the use of sustainable materials

LO.4.3 Understand the job roles, career opportunities and progression routes, and the importance of teamwork, for those who construct the built environment.

**Unit 5:
Value and Use of
the Built
Environment**

Internally assessed

In this unit you will gain knowledge and understanding of how infrastructures and transport services affect the people and places that use them, and how the welfare of the people who use the built environment can be protected. You will gain knowledge and understanding of where and how sustainable materials and processes are used in maintaining the built environment.

On completion of this unit a learner should:

LO.5.1 Understand the basic function and use of structures

LO.5.2 Understand how the built environment provides a feeling of society and wellbeing

LO.5.3 Know how the built environment is maintained

LO.5.4 Understand the job roles, career opportunities and progression routes, and the importance of teamwork, for those who value and maintain the built environment.

**Unit 6:
Maintenance of the
Built Environment**

Internally assessed

In this unit, you will explore the predicted operating costs of the completed project, which will be required by the client. When a project is completed it should remain in good condition for many years, with the minimum of maintenance. You will gain knowledge and understanding of the principles and practices of basic construction maintenance, and carry out some simple maintenance procedures.

LO.6.1 Understand the need for building and structural maintenance, and the importance of good design and workmanship

LO.6.2 Know how to identify and describe a range of common building and structural defects

LO.6.3 Be able to develop and use safe working practices and simple skills for undertaking routine building and structural maintenance operations.

**Unit 7:
Modern Methods of
Construction**

Internally assessed

In this unit, you will gain knowledge and understanding of modern methods of construction and their impact, as compared to traditional forms of construction. You will investigate a range of methods and techniques designed to save time, reduce costs and increase productivity.

On completion of this unit a learner should:

LO.7.1 Know about traditional construction methods

LO.7.2 Understand alternative methods of construction

LO.7.3 Be able to identify key factors influencing speed, quality, cost and sustainability of construction methods, and select a construction method.