



### Why is the study of Construction important?

This course allows you to study construction and the built environment, giving you the opportunity to gain a broad knowledge and understanding of the industry. You will develop skills such as interpreting and analysing information, identifying the infrastructure required for safe and efficient work and in understanding how client needs can shape building design. The qualification is 120 GLH, which is the same size and level as a GCSE, it is aimed at everyone who wants to find out more about construction and the built environment.

It gives you the opportunity to learn about one of the most important sectors of the UK economy.

You will study three mandatory units, covering the fundamental knowledge, skills and understanding required construction technology and design:

- Construction technology
- Construction and design
- Scientific and mathematical application for construction

### What skills will the study of Construction teach you?

You will study three mandatory units, covering the fundamental knowledge, skills and understanding required construction technology and design:

- Construction technology
- Construction and design
- Scientific and mathematical application for construction

Alongside these theory units you will study brick and blockwork, gaining practical experience.

### How will I be assessed?

WJEC Level 1/2 Award in Construction and the Built Environment				
Unit Number	Unit Title		Assessment	Guided Learning Hours
1	Construction technology	Mandatory	External	30
2	Science and maths in construction	Mandatory	Internal	30
3	Construction Design	Mandatory	Internal	30
7	Brick and blockwork principles	optional	Internal	30

You will carry out tasks/assignments throughout the course. Your teacher will mark these, and so you will receive feedback as to how you are getting on.

For the assessment for Unit 3: Construction and Design, you will be able to draw on the knowledge, skills and understanding you have developed in the qualification as a whole.

The assessment for Unit 1: Construction Technology, is a test which is sent away to be marked.

### Where will this take you?

This qualification enables you to develop a theoretical and practical knowledge of the built environment alongside some practical skills. It enables you to engage with the mathematical and scientific principles that underpin the construction industry, and to explore the impact of design through research and the application of your own ideas in response to a design brief. It also allows you to progress to further study at level 3 of academic and/or vocational qualifications in construction and the built environment, engineering or design, and to apprenticeships.

## What will you know and understand from your study of Construction

The course consists of 4 units, unit 1 exam, unit 2 Science and maths, unit 3 construction and design and unit 6 Brick and blockwork principles.

### UNIT 1

In this unit you will:

- A. understand the structural performance required for low-rise construction
- B. explore how sub-structures are constructed
- C. explore how superstructures are constructed

### UNIT 2

In this unit you will:

- A. understand the effects of forces and temperature changes on materials used
- B. in construction
- C. use mathematical techniques to solve construction problems

### UNIT 3

Unit 3 provides the main synoptic assessment for the qualification. Unit 3 builds directly on Units 1 and 2 and enables learning to be brought together and related to a real-life situation.

Unit 3: Construction and Design requires learners to apply their learning in construction technology to design a client brief for a building. The learners will use mathematical applications from Unit 2 in the design process. The design of the assessment criteria ensures that there is sufficient stretch and challenge, enabling the assessment of knowledge and understanding at the end of the learning period.

The assessment criteria require learners to demonstrate that they can identify and use effectively an appropriate selection of skills, techniques, concepts, theories and knowledge from across the mandatory units in an integrated way. Assignments will support learners in drawing knowledge and understanding from across the qualification. Examples of this include working as an assistant in an architectural practice, working with a new client and assisting on a new project to give an overview of the construction industry and designing the project for the client. This opportunity will allow the learner to apply and demonstrate knowledge and understanding of Construction Technology and Scientific and Mathematical applications of construction.

### UNIT 7

In this unit you will:

- A. understand tools, materials and equipment used for brickwork and blockwork
- B. develop practical skills and safe techniques to construct brickwork and blockwork

Students are tasked with the planning preparation and building of a cavity wall model following health and safety guidelines. They are expected to complete a risk assessment before work is started and work to SWP throughout. The students are then asked to present their work and knowledge in a toolbox style presentation.

Pearson BTEC Level 1/2 First Award in Construction and the Built Environment Course Overview		
Term	Year 1	Year 2
Autumn 1	Unit 1 / skills for unit 7	Unit 2 science and maths
Autumn 2	Unit 1 / skills for unit 7	Unit 2 science and maths
Spring 1	Unit 1 construction technology	Unit 3 construction design
Spring 2	Unit 1 construction technology	Unit 3 construction design
Summer 1	Unit 7 preparation	Exam preparation and revision
Summer 2	Unit 7 assessment	Exam preparation and revision

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