Construction and the Built Environment

Level 1/2 Vocational Award in Construction and the Built Environment (Technical Award)

Why is the study of Construction and the Built Environment important?

In the UK, there is a substantial and immediate skill shortage in the Construction sector. This ranges from operatives such as joiners, bricklayers or plumbers, to professionals such as project planners, architects or surveyors. Construction and the Built Environment aims to address that shortage by providing students with a broad introduction and overview of the many different trades involved in the Construction sector. It aims to equip students with the hands-on skills to begin a journey in a trade as well as delving into the different careers available in the industry and the different paths on offer. The course also addresses the importance of safety and security on construction sites and starts students on the pathway to having the skills and knowledge required to obtain their CSCS (Construction Skills Certification Scheme) card.

What skills will the study of Construction and the Built Environment teach you?

Students will gain an in-depth knowledge of:

- The construction sector
- The built environment life cycle
- Types of buildings and structures
- Technologies and materials
- Building structures and forms
- Sustainable construction methods
- Trades, employment and careers
- Health and safety

What will you know and understand from your study of Construction and the Built Environment?

Students will undertake practical tasks to develop their skills in:

- Interpreting technical sources of information
- Planning and organising work
- Identifying resource requirements
- Calculating the materials required
- Writing and setting success criteria
- Preparing for construction tasks
- Carrying out techniques
- Removing and disposing of materials
- Working practices that promote health and safety
- Evaluating construction tasks.

OPEN ELEMENT SUBJECT OVERVIEW

How can you deepen your understanding of Construction and the Built Environment?

Throughout your study of this course, you will gain access to a range of opportunities within the Design and Technology department. These could including hands-on activities such as:

Specialist training on Autodesk Revit - Autodesk Revit is a professional building information modelling software tool for architects, landscape architects, structural engineers, mechanical, electrical, and plumbing engineers, designers and contractors. Students will gain access to training days where they will receive introductory hands on experience of the software whilst designing a house.

Bricklaying training day - Students will have access to a Construction training facility within the trust to undertake a hands-on training day learning the bricklaying trade.

Visits to Construction sites - Students will have access to a range of different visits to see first hand how a construction site operates.

Students will also have the opportunity to be involved in a range of real life construction tasks that support the school and local community.

How are you assessed in Construction and the Built Environment?

Students will complete two of the available three units of work. These are outlined below:

Unit 1 : Introduction to the Built Environment

This is an externally assessed on-screen examination. The exam takes 1 hour 30 minutes and accounts for 40% of the qualification's final grade.

Unit 2 : Not studied/required at Outwood Academy Carlton.

Unit 3 : Constructing the Built Environment

This is an internally assessed portfolio of both written and practical work. Evidence for this work is expected to take approximately 30 hours and accounts for 60% of the qualification's final grade.

OPEN ELEMENT SUBJECT OVERVIEW

Key Assessment Objectives

AO1 : Demonstrate knowledge and understanding from across the specification.

AO2 : Apply skills (including practical skills), knowledge and understanding in a variety of contexts and in planning and carrying out investigations and tasks.

AO3 : Analyse and evaluate information, making reasoned judgements and presenting conclusions.

Coursework requirements

In studying for this unit, learners will develop knowledge and understanding of, and skills in, constructing the built environment. Learners are required to present their written and any drawing work in an A4 or A3 sized document (or a document made up of a combination of both sizes). Additionally, learners are required to present evidence of their construction work using coloured photographic images.

How can Construction and the Built Environment support your future?

The construction industry offers a wide range of exciting opportunities, from tradesperson to leading large scale construction projects, and from an architect to renovator of our historic built environment.

This course will support your next steps of study, whether that be college or an apprenticeship.

Careers that the study of Construction supports include:

- Joiner
- Plumber
- Electrician
- Plasterer
- Tiler
- Bricklayer
- Surveyor
- Architect
- Site Inspector
- Building services engineer
- Civil engineer

OPEN ELEMENT SUBJECT OVERVIEW

Construction and the Built Environment Course Overview		
Term	Year 1	Year 2
Autumn 1	• 1.8 Health & Safety • Introduction to the workshop - Health & Safety Induction • Introduction to basic woodworking tools and machinery : Manufacturing own toolbox	• Trade Task : Joinery
Autumn 2	• 1.8 Health & Safety • Introduction to the workshop - Health & Safety Induction • Introduction to basic woodworking tools and machinery : Manufacturing own toolbox	• Trade Task : Tiling • Trade Task : Plumbing
Spring 1	• 1.1 The Sector • Wood joints : Stool/Table manufacture	• 1.5 Building Structures and Forms of Buildings and Structures • 1.6 Sustainable Construction Methods • 1.7 Trades, Employments and Careers • 1.8 Health & Safety
Spring 2	• 1.2 The Built Environment Life Cycle • How stud walls are made	• Mock Exams • Revisit 1.1 - 1.4
Summer 1	• 1.3 Types of buildings and structures • 1.4 Technologies and Materials	• Exam Preparation
Summer 2	• 1.5 Building Structures and Forms of Buildings and Structures • Trade Task : Joinery	• Exam Preparation