

# CONSTRUCTION AND THE BUILT ENVIRONMENT

## Year 10

TERM 1 content and skills	TERM 2 content and skills	TERM 3 content and skills	EXTENDED CURRICULUM (trips/visits/after school activities)
<p><b>Introduction to the Course</b></p> <p><b>Unit 1: Introduction to the Built Environment</b></p> <p><b>1.1 The Sector</b> Learners will gain knowledge and understanding of the following areas in construction and the built environment sector:</p> <ul style="list-style-type: none"> <li>• buildings and structures</li> <li>• infrastructure and civil engineering products</li> <li>• building services engineering</li> <li>• professional and managerial roles and responsibilities associated with the built environment sector.</li> </ul> <p><b>Unit 3: Constructing the Built Environment</b></p> <p>Practical practice tasks in Developing Construction Projects:</p> <ul style="list-style-type: none"> <li>• To be able to interpret technical sources of information <b>(3.1)</b>. Building knowledge and skills through skills' board and woodwork (Boat) practical tasks.</li> <li>• Know preparation requirements for</li> </ul>	<p><b>Unit 1: Introduction to the Built Environment</b></p> <p><b>1.2 The Built Environment Life Cycle</b> Learners will gain knowledge and understanding of the built environment life cycle, specifically:</p> <ul style="list-style-type: none"> <li>• raw material extraction</li> <li>• manufacturing</li> <li>• construction</li> <li>• operation and maintenance</li> <li>• demolition</li> <li>• disposal, reuse or recycling.</li> </ul> <p><b>1.3 Types of Building and Structure</b> Learners will gain knowledge and understanding of the features and characteristics of:</p> <ul style="list-style-type: none"> <li>• different forms of infrastructure construction</li> <li>• low-rise: <ul style="list-style-type: none"> <li>• residential dwellings</li> <li>• commercial buildings</li> <li>• industrial buildings</li> <li>• agricultural buildings</li> <li>• community buildings</li> <li>• religious buildings</li> <li>• recreational buildings.</li> </ul> </li> </ul>	<p><b>Unit 1: Introduction to the Built Environment</b></p> <p><b>1.4 Technologies and Materials</b> Learners will gain knowledge and understanding of tools, technologies and materials used in the construction and built environment sector:</p> <ul style="list-style-type: none"> <li>• main elements and components of low-rise buildings</li> <li>• main materials involved in constructing walls, installing building services, fitting roofs and finishing interiors</li> <li>• renewable technologies and materials, including heat pumps, wind turbines and solar panels.</li> </ul> <p><b>1.5 Building Structures and Forms</b> Learners will gain knowledge and understanding of the following building structures and forms:</p> <ul style="list-style-type: none"> <li>• cellular constructions</li> <li>• rectangular frame constructions</li> <li>• portal frame constructions</li> <li>• heritage and traditional methods.</li> </ul> <p><b>Unit 3: Constructing the Built Environment</b></p> <p>Practical practice tasks in Developing Construction Projects:</p> <ul style="list-style-type: none"> <li>• To be able to interpret technical sources of information <b>(3.1)</b>. Building knowledge and</li> </ul>	<p>Links with the Construction Industry – Potential Site Visits &amp; Guest Speakers</p>

<p>construction tasks <b>(3.2)(3.6)</b>. Building knowledge and skills through skills' board and woodwork (Boat) practical tasks.</p> <ul style="list-style-type: none"> <li>Be able to use construction processes in completion of construction tasks <b>(3.7)(3.9)</b>. Building knowledge and skills through skills' board and woodwork (Boat) practical tasks.</li> </ul>	<p><b>Unit 3: Constructing the Built Environment</b></p> <p>Practical practice tasks in Developing Construction Projects: To be able to interpret technical sources of information <b>(3.1)</b>. Building knowledge and skills through woodwork Task (Game).</p> <ul style="list-style-type: none"> <li>Know preparation requirements for construction tasks <b>(3.2)(3.6)</b>. Building knowledge and skills through woodwork Task (Game).</li> <li>Be able to use construction processes in completion of construction tasks <b>(3.7)(3.9)</b>. Building knowledge and skills through woodwork Task (Game).</li> </ul>	<p>skills through woodwork Task (Game). Know preparation requirements for construction tasks <b>(3.2)(3.6)</b>. Building knowledge and skills through woodwork Task (Game).</p> <p>Be able to use construction processes in completion of construction tasks <b>(3.7)(3.9)</b>. Building knowledge and skills through woodwork Task (Game).</p> <p>Tiling Practice</p> <p>Practical Wood Joints Practice</p>	
<p><b>Assessment:</b>  <b>Unit 1: Introduction to the Built Environment</b>  The Sector – End of Term Test  <b>Unit 3: Constructing the Built Environment</b>  Skills Board Internal Assessment Woodwork Practical Task Internal Assessment (Boat)</p>	<p><b>Assessment:</b>  <b>Unit 1: Introduction to the Built Environment</b>  The Built Environment Lifecycle – Mid-Term Test  Types of Buildings and Structures – End of Term Test  <b>Unit 3: Constructing the Built Environment</b> Woodwork Practical Task Internal Assessment (Game)</p>	<p><b>Assessment:</b>  <b>Unit 1: Introduction to the Built Environment</b>  Technologies and Materials – Mid-Term Test  Building Structures and Forms – End of Term Test  <b>Unit 3: Constructing the Built Environment</b>  Woodwork Practical Task Internal Assessment (Game)</p>	

## Year 11

TERM 1 content and skills	TERM 2 content and skills	TERM 3 content and skills	EXTENDED CURRICULUM (trips/visits/after school activities)
<p><b>Unit 1: Introduction to the Built Environment</b></p> <p><b>1.6 Sustainable Construction Methods</b> Learners will gain knowledge and understanding of issues related to sustainable construction methods:</p> <ul style="list-style-type: none"> <li>• the environmental, financial, cultural and social benefits of sustainable construction methods</li> <li>• pollution and the preservation of the natural environment and natural habitats</li> <li>• sustainable materials used to create building frames, walls, roofs</li> <li>• waste disposal, re-use and recycling</li> <li>• planning permission, brownfield sites and greenfield sites.</li> </ul> <p><b>Unit 3: Constructing the Built Environment</b></p> <p>Students work on and complete their <b>Unit 3 Practical Assignment</b> for Wood (Carpentry), Tiling and Painting &amp; Decorating.</p> <p><b>3.1 Interpreting technical sources of information</b></p> <p><b>3.2 Planning and organising work</b></p> <p><b>3.3 Identifying resource requirements</b></p> <p><b>3.4 Calculating the materials required</b></p> <p><b>3.5 Writing and setting success criteria</b></p>	<p><b>Unit 1: Introduction to the Built Environment</b></p> <p><b>1.6 Trades, Employment and Careers</b> Learners will gain knowledge and understanding of the following:</p> <ul style="list-style-type: none"> <li>• bricklaying</li> <li>• stonemasonry</li> <li>• plastering</li> <li>• carpentry and joinery</li> <li>• electrical installation</li> </ul> <p>plumbing installation painting and decorating flooring and tiling.</p> <p><b>1.7 Health and Safety</b> Learners will gain knowledge and understanding of health and safety in relation to:</p> <p>risks for employees, employers and the public during construction and the built environment projects following procedures and carrying out risk assessments relevant legislation, including Health and Safety at Work Act and Control of Substances Hazardous to Health (COSHH) regulations using personal protective equipment (PPE) safely working with gas, water and electricity</p>	<p><b>Unit 1: Introduction to the Built Environment</b></p> <p><b>Unit 1:</b> Written Examination Paper- Introduction to the Built Environment – Revision Students take their Unit 1 written exam paper in the summer term of year 11.</p> <p><b>Unit 3: Constructing the Built Environment</b></p> <p>Practical Tasks and Projects to refine skills in Workshop.</p> <p>Live practical ‘jobs’ undertaken around CVC site to refine skills in interpretation, planning and construction processes.</p> <p>Building knowledge and understanding of the Construction Industry in the study of live or real Construction projects.</p>	<p>Links with the Construction Industry – Potential Site Visits &amp; Guest Speakers</p>

**3.6** *Prepare for construction tasks*

**3.7** *Carrying out techniques*

**3.8** *Removing and disposing of materials*

**3.9** *Working practices that promote health and safety*

*Evaluating construction tasks.*

working at height and in enclosed spaces.

**Unit 1:** Written Examination Paper-  
Introduction to the Built Environment –  
**Revision**

**Unit 3: Constructing the Built Environment**

Students work on and complete their **Unit 3 Practical Assignment** for Wood (Carpentry), Tiling and Painting & Decorating.

**1** *Interpreting technical sources of information*

**2** *Planning and organising work*

**3** *Identifying resource requirements*

**4** *Calculating the materials required*

**5** *Writing and setting success criteria*

**6** *Prepare for construction tasks*

**7** *Carrying out techniques*

**8** *Removing and disposing of materials*

**9** *Working practices that promote health and safety*

**10** *Evaluating construction tasks.*

**11** Students complete their **Unit 3 Written Assignment** covering the 3 material areas, as part of their controlled assessment.

	<p><i>3.6 Prepare for construction tasks</i></p> <p><i>3.7 Carrying out techniques</i></p> <p><i>3.8 Removing and disposing of materials</i></p> <p><i>3.9 Working practices that promote health and safety</i></p> <p><i>3.10 Evaluating construction tasks.</i></p> <p>Students complete their <b>Unit 3 Written Assignment</b> covering the 3 material areas, as part of their controlled assessment.</p>		
<p><b>Assessment:</b></p> <p><b>Unit 1: Introduction to the Built Environment</b></p> <p>Sustainable Construction Methods – End of Term Test</p> <p><b>Unit 3: Constructing the Built Environment</b></p> <p>Practical Assignments</p> <p>Constructing the Built Environment</p> <p>Controlled Assessment</p>	<p><b>Assessment:</b></p> <p><b>Unit 1: Introduction to the Built Environment</b></p> <p>Trades, Employment and Careers – Mid-Term Test</p> <p>Health and Safety – End of Term Test</p> <p><b>Unit 3: Constructing the Built Environment</b></p> <p>Practical Assignments</p> <p>Constructing the Built Environment Controlled Assessment, plus written Assignment</p> <p>Coursework Completion.</p>	<p><b>Assessment:</b></p> <p><b>Unit 1: Introduction to the Built Environment</b></p> <p><b>Written Exam Paper</b></p>	