



CBE - LEVEL 2 / 3

LEVEL 2 – BTEC TECH AWARD (New from 2021)

YEAR 10			
HT1	HT2	HT3	HT4
<p>Unit 2: Carpentry and Joinery / Practical unit – This component will introduce learners to commonly used hand tools, equipment and craft skills needed in the creation of the built environment and how to select and use materials in order to safely produce quality outcomes. This occupational unit is optional and can differ from other trade routes. Typically, learners work through Activity sheets that are set in class and online as a backup. The learning outcomes are:</p> <p>A) Be able to understand hazards and risk for safe production of a practical construction outcome B) Be able to produce a practical construction outcome.</p> <p>This unit is concluded by an internal assessment, directed by external set assignments and is externally moderated.</p>			
HT5		HT6	
<p>Unit 3: Construction and Design – in this unit learners will develop a broad understanding of the construction industry, the sort of projects it undertakes, and the contribution it makes to wider society. Learners will also look at how client needs can shape the design of a building and develop their own design ideas to a given brief. Typically creating floor plans and exterior views of designed ideas with annotations. The learning outcomes are:</p> <p>A) Understand the needs of a client and the constraints on design when designing a low-rise building B) Be able to graphically communicate the design of a low-rise building.</p> <p>This unit is concluded by and internal set assessment and is externally moderated – assessment to be followed up during Y11 / HT 1 + 2.</p>			

YEAR 11		
HT1 + 2	HT3+4	HT5+6
<p>Unit 3:</p> <p>Conclusion and assessment of Construction and Design as described above.</p>	<p>Unit 1: Construction Technology – this unit covers the different forms of construction that can be used for low-rise offices, retail units and homes. Learners will develop an understanding of the structural performance required for low-rise construction and explore how substructures and superstructures are constructed. This unit will be externally assessed by performing an exam paper. Unit 1 interlinks with all other units performed and forms a base for a wider set of knowledge and skills that will have an element of retrieval activities set until the end of year 11. Typically, learners work through Activity sheets that are set in class and online as a backup. The learning outcomes are:</p> <p>AO1 Demonstrate knowledge of work of the construction industry and the different technology used in low-rise construction projects AO2 Demonstrate understanding of work of the construction industry and the different technology used in low-rise construction projects AO3 Be able to make connections between different construction technologies to ensure appropriateness of low-rise construction projects in different scenarios This unit is concluded by an internal assessment, directed by external set assignments and is externally moderated.</p>	



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LEVEL 3 (2018 version onwards)

YEAR 12	
HT1 -3	HT4 - HT6
<p>Unit 1 - Construction Principles</p> <p>A) Construction materials The use of materials in construction, including their manufacture, the properties of materials linked to their use, the degradation of materials, the effects of temperature change on materials and the behaviour of materials under different loading conditions.</p> <p>B) Solving practical construction problems Application of mathematical and statistical methods and techniques used in practical construction contexts</p> <p>C) Human comfort The impact of heat, light and sound on human comfort in the built environment.</p> <p>This unit is externally assessed - exam based – externally moderated.</p>	<p>Unit 2 - Construction Design</p> <p>A) Stages and tasks involved in the design process The application of Stages 1–4 of the Royal Institute of British Architects (RIBA) Plan of Work 2013 to the tasks associated with the design of low- and medium-rise domestic, commercial and industrial buildings.</p> <p>B Project information and building design production Information used in the production of building designs.</p> <p>C Construction methods and techniques Construction methods and techniques used in the design and construction of low- and medium-rise domestic, commercial and industrial buildings.</p> <p>This unit is externally assessed - synoptic assignment based – externally moderated.</p>



CBE - LEVEL 2 / 3

LEVEL 3 (2018 version)

YEAR 13	
HT1 -3	HT4 - HT6
<p>Unit 5 - Health and Safety In Construction</p> <p>A Understand how health and safety legislation is applied to construction operations Presentations, explanatory leaflets or a formal report that references case studies, showing the impact of how legislation and regulations uphold and improve health and safety on construction sites. Reference to statistics could provide justification of legislation and regulation effectiveness.</p> <p>B Carry out the development of a safe system of work for construction operations A safety survey with completed documentation, including the production of a risk assessment and method statement.</p> <p>C Understand the need for the review of safety systems for construction operations. A report evaluating how safe systems can be improved following the reporting of accidents, utilising review procedures.</p> <p>This unit is concluded by an internal assessment, directed by external set assignments and is externally moderated.</p>	<p>Unit 4 - Construction Technology</p> <p>A Understand common forms of low-rise construction Evaluation of the effectiveness of different structural forms for use with a given a low-rise buildings project scenario.</p> <p>B+C Examine foundation and superstructure design and construction Evaluation of the construction of new low-rise buildings.</p> <p>D) Examine external works associated with construction projects Analysing the design and construction of external works for new construction projects, including the incorporation of a sustainable urban drainage system.</p>



DUKE'S SECONDARY SCHOOL

LONG TERM CURRICULUM PLAN

CBE - LEVEL 2 / 3

	<p>This unit is concluded by an internal assessment, directed by external set assignments and is externally moderated.</p>
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