

Pearson BTEC Level 4 HNC in Construction and the Built Environment (Surveying)

Individual Project

The aim of this unit is to support students in using and applying the knowledge and skills they have developed through other areas of their studies to complete and present an individual project. In addition, this unit will provide students with key study skills that will support them in further study.

Construction Technology

This unit will explain the terminology used in construction technology, describe the different techniques used to construct a range of substructures and superstructures, including their function, design selection criteria, identify the different types of civil engineering/infrastructure technology used in support of buildings, illustrate the supply and distribution of a range of building services and how they are accommodated within the building and understand and application of innovative approaches and technology in a real life.

Science & Materials

This unit aims to support students to make material choices to achieve the desired outcomes of a brief. This is approached from the perspective of materials being fit for purpose; as defined by testing standards and properties, but also by consideration of the environmental impact and sustainability. Awareness of health & safety is considered alongside the need to meet legislative requirements.

Construction Practice & Management

The unit compares and investigates small, medium and large construction companies within the market place and how construction processes, for development, have evolved.

Legal & Statutory Responsibilities

This unit will introduce the different areas of law that are relevant to the construction industry throughout the development process. This includes applying for planning approval to undertake construction activities and using building control regulations to evaluate building design and alterations at the preconstruction stage. The unit will explore the laws of occupiers' liability, trespass and nuisance to manage construction

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activities on-site, and the legal aspects of the sale and leasing process involved in the disposal of buildings; using the law of contract and land law.

Measurement & Estimating

The overall aim of this unit is to provide students with an understanding of the quantity surveying techniques of measurement and the estimation of rates for the compilation of tender information. This is a vital activity in achieving a successful outcome for a contracting company in tendering and winning work.

Financial Management & Business Practice in Construction

This unit introduces the concepts of business management and financial control. Students will examine a range of factors that influence the ways in which companies grow, raise finance and control their costs and resources. Topics included in this unit are: the legal status of building companies and how this impacts on raising finance, the different sources of finance and how a company manages them, contemporary management strategies, and how the day-to-day management of the different resources used by a construction company impact on their success.

Tender & Procurement

The aim of this unit is to define what constitutes a tender and the information required for this process, explain the procedures and contractual arrangements for procurement (contract formation, breach of contract, torts and remedy), analyse the factors that affect the selection of construction procurement methods and documentation, calculate an estimate for a work (including time, cost, quality and associated matters) and financial appraisal on construction projects and related economics issues.