

Construction Technologies Theory - Level 3 Course

Key Information

Course Format:
Paper Based Course Materials

Price:
£336.00

Assessment:
3 Tutor Marked Assignments

Payment Options:
Spread the cost over 4 monthly payments

Approximate Study Time:
180 Hours of Self Study

Initial Payment of
£150.00

Approximate Delivery Time:
1-2 Working Days (Courier Service)

Followed by 3 payments of:
£62.00



The **Construction Technologies Theory Course** is ideal for students wanting to learn about the construction trade before pursuing further training or a job role. The course is suitable as a piece of initial training for a new starter, or as a refresher for anyone already working in this sector.

On successful completion of this course students will receive an accredited Level 3 Certificate of Achievement.

Course Overview:

The home study courses are split into the following 3 modules:

- Health, Safety and Welfare in Construction and the Built Environment (60 hours)
- Science and Materials in Construction and the Built Environment (60 hours)
- Construction Technology and Design in Construction and Civil Engineering (60 hours)

The course includes the following Units:

● **Health, Safety and Welfare in Construction and the Built Environment (60 Hours):**

Health, safety and welfare are of paramount importance to any organisation operating within the construction industry. The Health and Safety Executive's annual league table of fatal injuries shows the construction sector consistently tops the table. The UK and European Union have created a legal framework for prosecuting employers and employees who disregard health, safety and welfare legislation. To reduce the significant accident record in construction, employers must formulate workplace safety policies. These must address the hazards, risks, policies, the organisational and control arrangements required to promote health, safety and welfare, and be communicated to all parties. The unit will provide learners with knowledge and understanding of the legal framework relating to employer and employee responsibilities. An understanding of the principal causes of typical accidents and the associated costs of these will be developed, and learners will explore the methods used to identify workplace hazards in construction, together with the strategies used to control them including the use of risk assessments and monitoring and review procedures. Learners will become familiar with the roles and responsibilities of personnel and with the procedures required following the occurrence of accidents.

● **Science and Materials in Construction and the Built Environment (60 Hours):**

Two important functions of a building are the provision of shelter and the creation of a comfortable space in which to live or work. To achieve this, it is necessary to know and understand the materials used to construct the building, the basic concepts that underpin the structural integrity of the building, and the design of the internal spaces that comprise the building. The occupants of a building require a comfortable internal environment, and there are several key factors that contribute to this. There are generally accepted ranges for these factors, and an understanding of what is acceptable to a variety of different end-users, undertaking a variety of tasks and activities is an essential requirement of good design. The forces that act on buildings, the stresses generated by these forces, and the effects of these stresses on the materials used to construct the building are also explored. Materials may be used for their structural properties, or for their insulating properties; others conduct heat and/or electricity. Learners will have the opportunity to investigate some of the typical materials used in their specific vocational pathway, including the identification of the most important materials, a basic understanding of how these are extracted, harvested or manufactured, their key properties and uses, the mechanisms that cause them to deteriorate and the techniques used to prevent such deterioration.

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● Construction Technology & Design in Construction & Civil Engineering (60 Hours):

Modern developments in construction technology and materials have enabled us to create more efficient and complex structures. The ability to design, plan and communicate these ideas effectively is essential if a project is to be translated from an idea into reality.

This unit will encourage learners to develop their understanding of the design process, and to recognise the contribution of other members of the design team. Planning and organisation of design activities is related to the decision making process and the likely outcomes of decisions taken by the team within a legal framework should be considered in the wider social context, rather than simple subjective preferences.

This unit will enable learners to cope with the requirements of construction related projects as they pass through various stages from design to construction including the implications of changes and variations in the design. Learners will develop their ability to produce clear drawings of construction components, coupled with succinct and accurate explanations that specify to builders the exact characteristics of relevant construction details. Use of scale, proportion and appropriate description is expected of all successful learners. Learners will be able to use appropriate design and planning procedures to specify and communicate requirements for the technical components of buildings to other team members involved in a construction project.

Prerequisites:

There are no particular entry requirements.

Course Duration & Support:

Students may register at any time and have a full year to complete their studies. You also have access to a personal tutor by mail or email for a 12 month period. As the home study courses are self study you can complete in as little or as long a time as you prefer.

Assessment:

The course includes 3 tutor marked assignments (TMAs) and some self assessment exercises. You will only be assessed on the tutor marked assignments which can be submit to your course tutor by email (Word Processed Document) or by post.

Certification:

At the end of this course successful learners will receive a Certificate of Achievement from ABC Awards and Certa Awards and a Learner Unit Summary (which lists the components the learner has completed as part of the course). The course has been endorsed under the ABC Awards and Certa Awards Quality Licence Scheme. This means that Kendal Publishing has undergone an external quality check to ensure that the organisation and the courses it offers, meet defined quality criteria. The completion of this course alone does not lead to a regulated qualification* but may be used as evidence of knowledge and skills gained.

The Learner Unit Summary may be used as evidence towards Recognition of Prior Learning if you wish to progress your studies in this subject. To this end the learning outcomes of the course have been benchmarked at Level 3 against level descriptors published by Ofqual, to indicate the depth of study and level of demand/complexity involved in successful completion by the learner. Information on level descriptors can be found on the Ofqual's level descriptors page. We provide a link to this on each course page of our website.

The course itself has been designed by Kendal Publishing to meet specific learners' and/or employers' requirements which cannot be satisfied through current regulated qualifications. ABC Awards & Certa Awards endorsement involves robust and rigorous quality audits by external auditors to ensure quality is continually met. A review of courses is carried out as part of the endorsement process. ABC Awards and Certa Awards have long-established reputations for providing high quality vocational qualifications across a wide range of industries. ABC Awards and Certa Awards combine over 180 years of expertise combined with a responsive, flexible and innovative approach to the needs of our customers. Renowned for excellent customer service, and quality standards, ABC Awards and Certa Awards also offer regulated qualifications for all ages and abilities post-14; all are developed with the support of relevant stakeholders to ensure that they meet the needs and standards of employers across the UK.

*Regulated qualification refers to those qualifications that are regulated by Ofqual / CCEA / Qualification Wales