

Unit 82: Construction Design Procedures

Unit code: J/600/0353

QCF Level : 3

Credit value: 10

Guided learning hours: 60

Unit aim

This unit gives learners an opportunity to gain knowledge of the function of the design team during the build and project management stages of a project, and an understanding of design practices and the function of the design team during the design stage of a project. They will investigate the legal context within which design takes place, the factors that influence design procedures and the economics of design.

Learning outcomes and assessment criteria

In order to pass this unit, the evidence that the learner presents for assessment needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit.

Learning outcomes	Assessment criteria
1 Understand design practices	1.1 Describe the historic role of the designer
	1.2 Describe the factors that affect design practices
	1.3 Explain design practices
2 Understand the function of the design team during the design stage of a project	2.1 Describe the principles that affect the functional roles and responsibilities of design team members
	2.2 Explain how to produce economical designs
3 Know the function of the design team during the build stage of a project	3.1 Describe the function of the design team during the build phase of a project
4 Know the function of the design team during the project management stage of a project	4.1 Describe the functions of the design team during the project management stage of a project

Unit content

1 Understand design practices

Historic role of the designer: pattern of evolution; emerging modern practices; group approach; multidisciplinary approach; members of design team; contribution of design technologist to successful design

Factors: formal relationship of designer with client and other members of the construction team; concept of negligence and indemnity insurance; RIBA Plan of Work as an organisational framework and a basis for communication within the design team

Design practices: methods; technologies; processes; procedures

2 Understand the function of the design team during the design stage of a project

Principles: historic developments of principles in building design; influence of current technology on building design stage; terminology; standard design concepts; effective communication; design freeze; quality assurance techniques; value engineering; sustainable design

Economics of design: appropriate information; specification writing; specialist design requirements for people with disabilities

3 Know the function of the design team during the build stage of a project

Function of design team: quality control; inspection and certification of work; analysis and evaluation of contract documents; administration of contract documents; information coordination; contract completion; handover defects liability; final certification

4 Know the function of the design team during the project management stage of a project

Function of design team: control of drawing office programmes; time sheets; fee stages; team leadership; personnel management; conflict management; standard contract documentation; management of CAD and information retrieval systems