Unit 54: Project in Construction and the Built Environment

Unit code: M/600/0444

QCF Level: 3

Credit value: 10

Guided learning hours: 60

Unit aim

This unit aims to enable learners to develop the skills needed to specify, plan and implement a project relating to construction and the built environment, and then present the project outcomes to an audience. Learners are required to take a project from inception to completion, using appropriate technology.

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 Be able to create a specification for a construction project	1.1 Identify a construction project and possible solutions
	1.2 Use appropriate techniques to identify the best solution for the construction project
	1.3 Produce a specification for the construction project
2 Be able to plan a construction project	2.1 Produce a plan for the construction project
3 Be able to implement a construction project	3.1 Carry out the construction project
	3.2 Maintain a project file
	3.3 Monitor progress and suggest solutions for problems that arise
4 Be able to present the outcome of the construction project	4.1 Prepare a presentation of the construction project
	4.2 Carry out a presentation of the construction project using the appropriate skills

Unit content

1 Be able to create a specification for a construction project

Techniques for identifying best solution: comparison methods eg statistical, graphical, quality and resource requirements/limitations, process capability, fitness for purpose; analysis eg cost benefit, feasibility

Specification: type of project; objectives; technical information eg functionality, reliability, operational conditions, process capability, scale of operation, size, capacity, cost, style, ergonomics, present and future trends; health and safety issues; environmental and sustainability issues; quality standards and legislation; timescales; resource implications (physical, human)

2 Be able to plan a construction project

Plan: long-term planning techniques eg flow charts, Gantt charts, critical path methods, software packages, use of RIBA Architect's Plan of Works; setting priorities; resources eg labour, plant, materials, technology; funding, budgeting

3 Be able to implement a construction project

Implement: effective and efficient use of resources and relevant techniques (eg equipment, tools, materials) within agreed timescale; adapting project plan where appropriate; maintaining appropriate records

Maintenance of project file: key project information eg project title, address, location, nature of project, work involved, names of key personnel, client, specialists, design and construction teams; project programme; schedule dates for completion of project phases; project meetings; communications; design work; calculations; financial costing; evolution of organised file format; updates eg design, cost information, decisions

Monitor progress: regular assessment of targets, milestones, budget and performance of individuals; modifying/updating charts/planners

4 Be able to present the outcome of the construction project

Preparation: consideration of audience; venue; environment; documentation; resources eg overhead transparencies, software packages and projectors, charts, models, video/DVD clips; planning; practice

Skills: clarity; concision; voice