

Unit 78: Principles and Applications of Management Techniques in the Construction Industry

Unit code: L/600/0435

QCF Level: 3

Credit value: 10

Guided learning hours: 60

Unit aim

This unit will enable learners to gain an understanding of the principles and application of site management techniques, and to develop skills in cost management techniques and designing systems for production control. Learners will gain an understanding of management principles and the relevance of these principles to managing resources during the production stage of a project. Learners will also develop an understanding of the management of construction sites and an appreciation of the interface between management techniques and productivity.

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 modern principles of management	1.1 Explain the principles and applications of modern management
2 Understand the application of construction site management techniques	2.1 Describe the techniques used to manage sub-contractors during the production stage of a project
	2.2 Describe the techniques used to assure quality on a construction site
	2.3 Explain the techniques used to manage the workforce during the production stage of a project

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3 Be able to apply cost management techniques	3.1 Explain the guidelines for managing cost during the production stage of a project
	3.2 Produce cost information from given data
4 Be able to design systems for production control	4.1 Explain how progress is measured
	4.2 Develop a programme of activities

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THIS IS AN ACCREDITED SPECIFICATION AND CAN BE USED FOR TEACHING AND ASSESSMENT

Unit content

1 Understand modern principles of management

Principles of management: forecasting; planning; organising; motivating; controlling; coordinating; communicating; theories of Fayol and McGregor

Applications: site management; progress monitoring; sub-contractor liaison; programmes of work

2 Understand the application of construction site management techniques

Manage sub-contractors: communication; insurances; inspection; supervision; retention of money and remedial works

Assure quality: sampling; testing of materials and workmanship; audit and inspection, statutory liaison

Manage the workforce: recruitment; training and assessment of competence of workforce; equal opportunities; individual and group motivational needs; leadership; concepts of team behaviour

3 Be able to apply cost management techniques

Managing cost: techniques (variance analysis; unit costing; marginal costing); variable costs; estimated costs; target costs; actual costs

Cost information: estimated cost; actual cost; profit; return cost; cash flow

4 Be able to design systems for production control

Measurement of progress: physical progress; financial progress; site returns; payments; claims and variations; review events

Programme of activities: bar charts; linked bar charts; network analysis; precedence diagrams; line of balance; time-change diagrams