
Overview

This unit is about the implementation of Building Information Modelling to develop a procurement programme.

Performance criteria

You must be able to:

- P1 confirm the areas of work for which **resources** will need to be procured and identify potential sources for obtaining them
- P2 develop a detailed and accurate **procurement programme** in an appropriate format
- P3 identify within the **procurement programme** the lead times for ordering and receiving essential **resources** appropriate to the **project stage**
- P4 analyse the critical path for procuring and use of **resources** and build in sufficient buffers to optimise project programming
- P5 identify any **inconsistencies and unacceptable variations** in the **procurement programme**, recommend feasible alternatives, and agree modifications to the **programme** with the stakeholders
- P6 integrate the **procurement programme** so that it is consistent with the requirements of the **overall programme**, statutory bodies and others who will be affected
- P7 monitor the **procurement programme** and identify modifications which would suit changed circumstances or which offer cost and time benefits

Knowledge and understanding

You need to know and understand:

- K1 how to confirm the areas of work for which **resources** will need to be procured (application)
- K2 what to identify as potential sources for obtaining **resources** (understanding)
- K3 how to develop a detailed and accurate **procurement programme** in an appropriate format (synthesis)
- K4 what to identify within the **procurement programme** as the lead times for ordering and receiving essential **resources** appropriate to the **project stage**
- K5 how and why to analyse the critical path for procuring and use of **resources** and build in sufficient buffers to optimise project programming (analysis)
- K6 what to identify as any **inconsistencies and unacceptable variations** in the **procurement programme** (understanding)
- K7 how and why to recommend feasible alternatives, and agree modifications to the **programme** with the stakeholders (synthesis)
- K8 how and why to integrate the **procurement programme** so that it is consistent with the requirements of the **overall programme**, statutory bodies and others who will be affected (synthesis)
- K9 how and why to monitor the **procurement programme** and identify modifications which would suit changed circumstances or which offer cost and time benefits (analysis)

Scope/range

- 1 Resources:
 - 1.1 information (including models, documents, drawings, electronic graphic and non-graphic data files)
 - 1.2 labour, plant and equipment, materials
 - 1.3 employer's information requirements
 - 1.4 services
 - 1.5 finance including cash flow
- 2 Procurement programme for:
 - 2.1 principal contractors
 - 2.2 sub/works/trade contractors
 - 2.3 suppliers
 - 2.4 consultants
 - 2.5 facility/asset managers
- 3 Project stages:
 - 3.1 Stage 0 (Strategy)
 - 3.2 Stage 1 (Brief)
 - 3.3 Stage 2 (Concept)
 - 3.4 Stage 3 (Definition)
 - 3.5 Stage 4 (Design)
 - 3.6 Stage 5 (Build and Commission)
 - 3.7 Stage 6 (Handover and Closeout)
 - 3.8 Stage 7 (Operation and End of Life)
- 4 Inconsistencies and unacceptable variations:
 - 4.1 working arrangements
 - 4.2 staging of payments
 - 4.3 schedule of deliveries
 - 4.4 obligations to third parties
 - 4.5 statutory obligations and approvals
 - 4.6 quality
 - 4.7 waste
- 5 Overall programme:
 - 5.1 client's overall timescale and requirements
 - 5.2 tender and contract activities

Scope/range

5.3 key dates for long delivery items

COSBIMD12.1

Develop a procurement programme in a Building Information Modelling environment



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Relevant occupations Managers in construction; Civil engineers; Architects; Quantity surveyors; Building and civil engineering technicians; Architectural technologists and town planning technicians; Draughtspersons; Graphic designers; Property, housing and land; Town planners managers; Chartered surveyors (not quantity surveyors) managers; Estimators, valuers and assessors managers

Suite Building Information Modelling

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