
Overview

This unit is about implementing Building Information Modelling to develop a schedule of work.

Performance criteria

You must be able to:

- P1 collate **project information** and identify **project needs**
- P2 produce detailed schedule of works which are accurate, and contain a complete statement of the **project needs** and the **range of services** which will be needed
- P3 estimate the work content and time duration accurately
- P4 plan the schedules of works so that it is achievable with the resources available
- P5 calculate appropriate and realistic allowances to meet anticipated contingencies
- P6 draft the schedule of works in a format which is appropriate to the type and scope of the work
- P7 **present** the schedule of works to stakeholders, correct any **inconsistencies** and agree amendments
- P8 **present** information clearly and accurately and reach agreement using a style and approach which maintains goodwill and trust

Knowledge and understanding

You need to know and understand:

- K1 how to collate **project information** (application)
- K2 what to identify as **project needs** (application)
- K3 how to produce detailed schedule of works which are accurate, and contain a complete statement of the **project needs** and the **range of services** which will be needed (application)
- K4 how and why to estimate the work content and time duration accurately (analysis)
- K5 how and why to plan the schedules of works so that it is achievable with the resources available (synthesis)
- K6 how and why to calculate appropriate and realistic allowances to meet anticipated contingencies (synthesis)
- K7 how to draft the schedule of works in a format which is appropriate to the type and scope of the work (application)
- K8 how to **present** the schedule of works to stakeholders, correct any **inconsistencies** and agree amendments (application)
- K9 how to **present** information clearly and accurately and reach agreement using a style and approach which maintains goodwill and trust (application)

Scope/range

- 1 Project information:
 - 1.1 conditions of contract
 - 1.2 bills of quantities
 - 1.3 specifications
 - 1.4 information (digital models, documents, drawings, graphical and non-graphical electronic data files)
 - 1.5 health and safety plans
 - 1.6 timescales
 - 1.7 contractual risks, obligations and scope of works
- 2 Project needs:
 - 2.1 time and sequencing
 - 2.2 cost
 - 2.3 quality objectives
 - 2.4 construction and installation requirements
- 3 Range of services:
 - 3.1 design (including management services)
 - 3.2 materials
 - 3.3 construction
 - 3.4 plant and equipment
 - 3.5 people
 - 3.6 demolition
- 4 Present:
 - 4.1 orally
 - 4.2 in writing
 - 4.3 graphically
 - 4.4 electronically
- 5 Inconsistencies:
 - 5.1 working arrangements
 - 5.2 staging of payments
 - 5.3 schedule of deliveries
 - 5.4 obligations to third parties
 - 5.5 statutory obligations and approvals

COSBIMD21.2

Develop a schedule of work in a Building Information Modelling environment



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Validity Current

Status Original

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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

Keywords Building Information Modelling
