COSBEDMO25
Manage project building information modelling protocols in built environment design management

Overview

This unit is about managing building information modelling protocols. You will need to ensure that processes and procedures for managing project information are agreed with project stakeholders.

You will need to maintain records of project information development and delivery. You will also need to monitor and review the effectiveness of the information exchange processes. Finally, you will also need to recommend and implement any agreed improvements.

COSBEDMO25
Manage project building information modelling protocols in built environment design management

Performance criteria

You must be able to:

P1   ensure that the parties accountable for information management throughout the project and at each project stage are confirmed with the client and project stakeholders

P2   advise the client on information requirements and ensure that processes and procedures are agreed between the client and project stakeholders in order to manage project information

P3   discuss and agree with the client and project stakeholders the structure and the content of the project information and how the information is to be used

P4   initiate, agree and implement the Project Information Plan with project stakeholders and ensure that it meets the client's requirements and is achievable

P5   liaise with project stakeholders to verify that agreed information management systems are functioning properly

P6   monitor information systems operation to ensure that there is reliable project information exchange between project stakeholders

P7   ensure that project information is configured to deliver required outputs

P8   maintain records of project information development and delivery in order to provide an information audit

P9   monitor and review the effectiveness of the Project Information Plan and information exchange processes and recommend and implement any agreed improvements

COSBEDMO25
Manage project building information modelling protocols in built environment design management

Knowledge and understanding

You need to know and understand:

K1   how to ensure that the parties accountable for information management throughout the project and at each project stage are confirmed with the client and project stakeholders (application)

K2   how and why to advise the client on information requirements and ensure that processes and procedures are agreed between the client and project stakeholders in order to manage project information (synthesis)

K3   how and why to discuss with the client and project stakeholders the structure and the content of the project information and how the information is to be used (synthesis)

K4   how and why to agree with the client and project stakeholders the structure and the content of the project information and how the information is to be used (evaluation)

K5   how and why to initiate the Project Information Plan with project stakeholders and ensure that it meets the client's requirements and is achievable (synthesis)

K6   how and why to agree the Project Information Plan with project stakeholders and ensure that it meets the client's requirements and is achievable (evaluation)

K7   how to implement the Project Information Plan with project stakeholders and ensure that it meets the client's requirements and is achievable (application)

K8   how to liaise with project stakeholders to verify that agreed information management systems are functioning properly (application)

K9   how to monitor information systems operation to ensure that there is reliable project information exchange between project stakeholders (analysis)

K10   how to ensure that project information is configured to deliver required outputs (application)

K11   how to maintain records of project information development and delivery in order to provide an information audit (application)

K12   how and why to monitor and review the effectiveness of the Project Information Plan and information exchange processes and recommend and implement any agreed improvements (analysis)

COSBEDMO25
Manage project building information modelling protocols in built environment design management

Additional Information

Scope/range

1. **Project stakeholders:**

    1.1. the client

    1.2. CDM coordinator

    1.3. financial advisers

    1.4. consultants

    1.5. potential contractors

    1.6. potential sub-contractors and suppliers

    1.7. facilities/asset maintenance managers

    1.8. users

2. **Project stages:**

    2.1. Stage 0 (Strategy)

    2.2. Stage 1 (Brief)

    2.3. Stage 2 (Concept)

    2.4. Stage 3 (Definition)

    2.5. Stage 4 (Design)

    2.6. Stage 5 (Build and Commission)

    2.7. Stage 6 (Handover and Closeout)

3. **Processes and procedures:**

    3.1. employer's obligations

    3.2. project team member obligations (including production and delivery of information)

    3.3. electronic date exchange

    3.4. Model Delivery Table (including required models, model originators, definition of required levels of detail at project stages, model use/purpose at each project stage

    3.5. Project Information Plan

4. **Project Information Plan:**

    4.1. how models are to be developed at project stages

    4.2. project procedures/protocols (eg. clash detection, model review)

    4.3. software requirements

    4.4. model/information structure across roles

    4.5. information status structure

    4.6. information transfer structure

    4.7.   information change management

    4.8.   capture process for as-constructed information

    4.9.   capture process for testing and validation information

    4.10. capture process for commissioning information

    4.11. reconfiguration of information for as-constructed information

    4.12. reconfiguration of information for In-Use stage

    4.13. access rights

5. Required outputs:

    5.1.   Project development/design

    5.2.   Project construction

    5.3.   Project use/operation

    5.4.   Statutory requirements (e.g. approvals, Health & Safety file, Building Log book)

    5.5.   procurement

    5.6.   employer information exchanges

COSBEDMO25
Manage project building information modelling protocols in built environment design management

Developed by	ConstructionSkills
Version number	1.0
Date approved	December 2012
Indicative review date	January 2018
Validity	Current
Status	Original
Originating organisation	ConstructionSkills (CIC)
Original URN	COSBEDMO25
Relevant occupations	Architects; Civil Engineers; Graphic Designers; Architectural Technologists; Town Planning Technicians; Building Surveyors
Suite	Built Environment Design Management
Key words	Building Information Modelling; Project Information Plan; Model Delivery Table