
BIM Implementation for Project Leaders: ISO 19650 Information Management Course

31 January – 4 February 2027
Muscat





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Programme Summary

BIM implementation for project leaders, governed through ISO 19650 information management, is the subject of this one-week training course for project directors and client-side digital leaders at advanced level, culminating in a BIM implementation roadmap for their organisation. Many owners buy models without defining the information they need, so data arrives late, inconsistent or unusable at handover. The approach moves from information requirements and appointment, through execution planning and the common data environment, to model-based delivery and asset handover. Mars Training Centre UK delivers this programme in BIM implementation.

The Business Case

Building Information Modelling pays back only when the client defines what information is needed, when and in what form, and when every appointed party works to the same rules. Without that discipline, coordination errors reach site, quantities are re-measured by hand and operators inherit models they cannot use. Leaders who govern information as a project deliverable reduce rework and hand over assets that can be run from day one.

- Design Coordination Rework: Falls as federated models and clash reviews catch conflicts before construction.
- Handover Data Quality: Improves as asset information requirements drive what contractors deliver.
- Decision Cycle Time: Shortens as approved information is shared through one common data environment.

Principles and Evidence Base

- ISO 19650-1 and ISO 19650-2: Concepts, principles and the delivery-phase process frame the requirements and appointment work in Sessions 1 and 2.
- ISO 19650-3: The operational-phase process shapes the asset information model and handover planning in Session 4.
- ISO 19650-5: The security-minded approach informs access control and information sharing decisions in Session 2.
- IFC ISO 16739: Open data exchange underpins the federation and interoperability choices in Session 3.



Intended Participants

- Leaders who sponsor BIM adoption across a project or capital programme.
- Client-side managers who set information requirements for consultants and contractors.
- Design and construction managers who coordinate multi-party models.
- Asset and facilities leaders who receive project information at handover.

The programme serves real estate developers, infrastructure owners, government capital programmes and engineering contractors.

Learning Outcomes

1. Participants will be able to construct organisational, asset and exchange information requirements for a project.
2. Participants will be able to evaluate BIM execution plans and information delivery plans submitted by appointed parties.
3. Participants will be able to design common data environment workflows, status codes and access controls.
4. Participants will be able to prioritise model uses such as clash coordination, 4D sequencing and 5D cost against project value.
5. Participants will be able to justify a handover approach that delivers a usable asset information model.
6. Participants will be able to diagnose organisational BIM maturity and plan its improvement.

Programme Structure

Day 1: BIM Implementation Foundations and Information Requirements

What information does the owner need, and why?

- ISO 19650 Concepts: Appointing and Appointed Parties
- Organisational Information Requirements
- Asset Information Requirements
- Exchange Information Requirements in Tender Documents
- BIM Maturity Diagnosis for the Organisation

Day 2: Appointment, Execution Planning and the Common Data Environment

How are information duties assigned, planned and controlled?

- Pre-Appointment and Post-Appointment BIM Execution Plans
- Task and Master Information Delivery Plans
- Common Data Environment Workflow and Status Codes
- Security-Minded Information Sharing Under ISO 19650-5
- Assessing Supply Chain Capability and Capacity



Day 3: Model-Based Coordination and Delivery

Which model uses create value, and how are they governed?

- Model Federation and Clash Detection Reviews
- Open Data Exchange With IFC
- 4D Construction Sequencing
- 5D Model-Based Quantities and Cost
- Level of Information Need for Each Stage

Day 4: Handover, Operations and Digital Twins

How does project information become an asset that operators can use?

- Project Information Model to Asset Information Model Transition
- Operational-Phase Process Under ISO 19650-3
- Asset Data Validation and Acceptance Checks
- Digital Twin Use Cases for Operations
- Measuring BIM Value and Benefits Realisation

Day 5: Applying the BIM Implementation Roadmap

Is the roadmap realistic for the organisation's next projects?

- Applying Day 1 Requirements to a Live Project
- Testing Day 2 Execution Plans Against Supplier Capability
- Selecting Day 3 Model Uses for a Pilot Project
- Governance, Roles and BIM Policy for the Organisation
- Completing the BIM Implementation Roadmap

Methodology

The programme uses case analysis of BIM programmes on hospitals, rail, airports and commercial developments. Participants draft requirement documents, review real execution plans, walk through common data environment workflows and judge which model uses justify their cost. Cases compare client-led and contractor-led adoption, and peer review sharpens each roadmap before it is presented.

- Suggested activity: Drafting exchange information requirements for a design and build tender.
- Suggested activity: Reviewing a contractor's BIM execution plan against the client's requirements.
- Suggested activity: Defining handover acceptance checks for asset data.



Capstone Output

Each participant completes a BIM implementation roadmap. It contains a maturity diagnosis, a set of information requirements, a common data environment design, the model uses selected for a pilot project, a handover plan and governance roles. It is used to brief the executive sponsor and to prepare the next tender.

Frequently Asked Questions

Is BIM implementation training suitable for project leaders without modelling skills?

Yes. It is set at advanced level for leaders who govern BIM rather than operate software, and assumes experience of managing projects or capital programmes.

Which standards does the BIM implementation programme rest on?

It rests on the ISO 19650 series for information management, including Parts 1, 2, 3 and 5, and on IFC ISO 16739 for open data exchange.

How is the BIM implementation roadmap used at work?

You can use it to secure sponsorship, write requirements into the next tender, select a pilot project and assign BIM governance roles.