



Yatzar Creations

**YATZAR
ACADEMY**

buildingSMART Professional Certification - Foundation



Course Language : English
Course Pre-requisite : Nil
Learning Hours : 25 Hours
Learning Credits : 25 Credits
Learning Mode : Online / Live

Course Description

This course offers a structured exploration of Building Information Modeling (BIM) and its information management practices aligned with ISO 19650. Participants will progress from understanding BIM drivers, definitions, and terminology, through benefits and collaborative workflows, to project-level execution planning, open interoperability, and asset lifecycle management including organizational and security considerations. The course is designed for step-by-step delivery, reinforcing concepts with practical examples and cross-references to ISO 19650 parts.

Certification Path Note

Register

Enroll in “buildingSMART Professional Certification – Foundation” course.

Study

Complete all modules and exercises as outlined in the course.

Complete

Attend sessions, engage in case studies/ exercises, and review the glossary and quizzes.

Take Exam

Sit for the buildingSMART Foundation exam upon course completion.

Become

Achieve the buildingSMART certified professional certification.



Course Objectives

- Summarize BIM drivers and definition, outline ISO 19650 series, explain key terminology, assess maturity stages, and describe information model components.
- Explain why collaboration and structured information management matter, reference relevant standards, and identify BIM benefits for project teams and asset owners.
- Translate client needs into EIR, craft a BEP per ISO 19650, manage exchanges via CDE/MIDP, define roles, and evaluate supply chain BIM capability.
- Describe buildingSMART/openBIM principles, explain IFC/MVD/IDS for exchanges, apply Use Case Management, and integrate interoperability standards.
- Assess openBIM adoption benefits and challenges, identify organizational readiness factors, plan structured handovers with quality checks, and apply a security-minded information approach.

Intended Participants

- BIM Managers, Digital Information Managers, and Project Coordinators implementing BIM processes.
- Project Owners, Developers, and Facility Managers responsible for information management.
- Design Consultants, Engineers, and Construction Professionals seeking to integrate BIM into workflows.
- IT and Security Professionals managing data security and interoperability in BIM environments.



Course Syllabus

Module 1

BIM Foundations and Core Concepts

Lays the groundwork: why BIM emerged, precise definition, ISO 19650 series overview, core terminology, maturity stages, and the concept of an Information Model.

Understanding BIM Adoption Drivers

Understanding the BIM Concept

Exploring the ISO 19650 Series

Defining Essential BIM Terminology

Evaluating Information Management Maturity Levels

Exploring Components of an Information Model

Reading

Quiz

Module 2

Collaborative Practices and BIM Advantages

Explores why collaborative workflows and robust information management are essential, and details BIM advantages over traditional delivery for design/construction teams and facility owners/operators.

Exploring the Need for Collaborative Workflows

Highlighting the Importance of Robust Information Management

Applying Standards and Processes to Address Information Gaps

Recognizing Advantages for Design & Construction Teams

Recognizing Advantages for Owners & Operators

Reading

Quiz



Module 3

Implementing Project Information Management

Focuses on implementing structured project-level information management aligned with ISO 19650: defining requirements, crafting the BIM Execution Plan, ensuring consistent exchanges, using a Common Data Environment, assigning roles, and assessing supply chain capabilities.

Defining Client Information Requirements

Crafting the BIM Execution Plan (BEP)

Ensuring Consistent Data Exchanges

Leveraging a Common Data Environment (CDE)

Establishing Roles & Responsibilities in Information Management

Assessing Supply Chain BIM Capabilities

Reading

Quiz

Module 4

Open Standards and Interoperability

Covers buildingSMART and openBIM principles, the IFC standard, Model View Definitions and Information Delivery Specification, Use Case Management, and additional buildingSMART standards and solutions to enable interoperable workflows.

Introducing buildingSMART and Its Role

Defining openBIM and Its Benefits

Understanding the IFC Standard

Utilizing Model View Definitions (MVDs) and Information Delivery Specification (IDS)

Managing Use Cases with Use Case Management Platforms

Exploring Further buildingSMART Standards and Solutions

Reading

Quiz



Module 5

Asset Lifecycle Strategies and Organizational Change

Addresses information management beyond project delivery into asset operations: organizational readiness, cultural change, structured handover processes, and data security per ISO 19650.

Evaluating Opportunities & Challenges of openBIM Information Management

Driving Organizational Transformations for Lifecycle Management

Assessing Digital Asset Information Readiness

Planning Structured Handovers & Quality Assurance

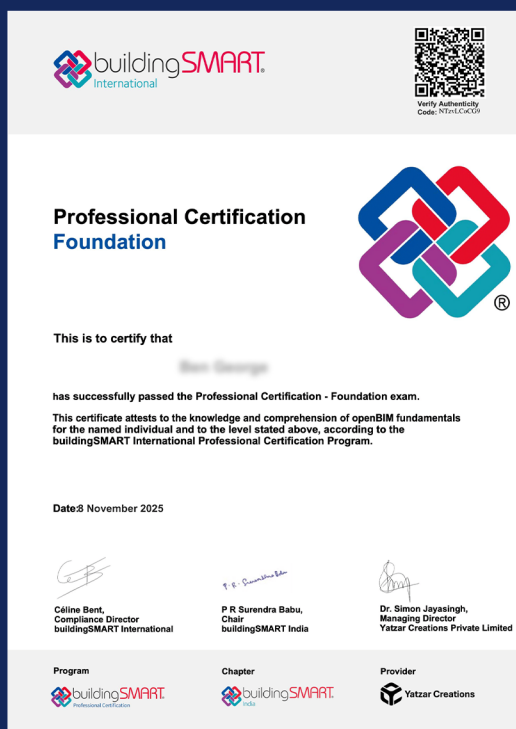
Implementing Security-Centric Information Management

Reading

Quiz


Take the buildingSMART Foundation Exam

Earn a Professional Certificate and Digital Badge from buildingSMART International and gain the credibility and confidence to contribute to better-connected, data-driven project delivery.





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