



**TRAINING DURATION:  
160 HOURS**

# SKILLS BUILDING TRAINING

Join our training program to upgrade your skills and accelerate your career growth with confidence and excellence.

Real-World Industry Experience

Professional Networking Ecosystem

Experiential Skill-Based Training

Personalized Career Roadmapping



## Contact Us

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# Master Certificate in Building Information Modeling (BIM)

The Master Certificate in BIM is a comprehensive, career-focused professional program designed to build complete expertise in Building Information Modeling (BIM) workflows. This program equips architecture, civil, and MEP professionals with the skills required to plan, design, coordinate, analyze, and visualize buildings using an integrated digital process.

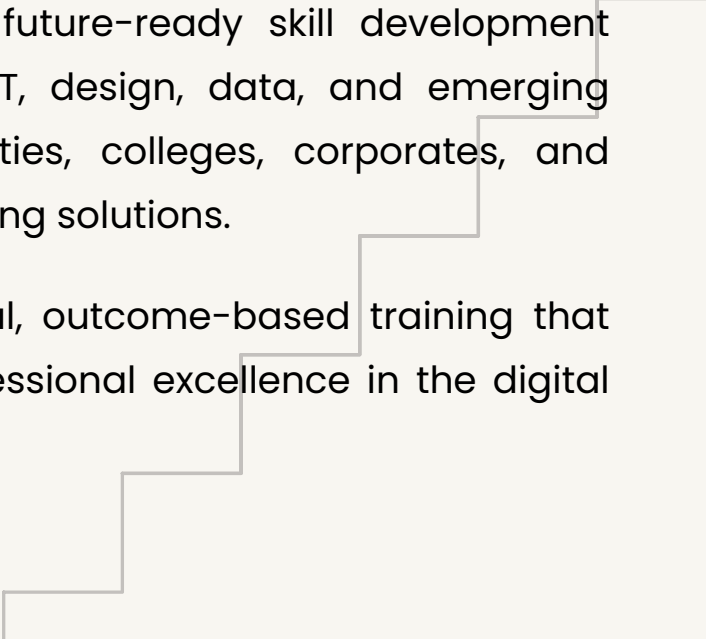
The course combines design theory, international BIM standards, advanced software training, and real-time industry projects, ensuring learners become job-ready BIM professionals capable of working on multidisciplinary construction projects.

- Smart cities and infrastructure projects
- Commercial and high-rise developments
- Hospitals, airports, metros, and industrial facilities
- Green building certification and lifecycle management

## About Company

Certed Technologies is a leading EdTech and corporate training organization committed to delivering industry-relevant, future-ready skill development programs. With a strong portfolio across IT, design, data, and emerging technologies, we collaborate with universities, colleges, corporates, and training institutes to deliver job-oriented training solutions.

**Mission:** To empower learners with practical, outcome-based training that enhances employability, creativity, and professional excellence in the digital economy.



# Market Scope – Master Certificate in BIM

## Industry Overview

- Mandatory BIM implementation in large-scale infrastructure projects
- High demand in AEC (Architecture, Engineering & Construction) firms
- Growing opportunities in MEP coordination, 4D planning, 5D costing, and FM
- Global job opportunities in the Middle East, Europe, Australia, and North America
- Integration of BIM with AI, Digital Twins, IoT, and Smart Buildings

## Career Opportunities

- BIM Modeler (Architecture / Structure / MEP)
- BIM Coordinator
- BIM Engineer
- Revit Architect / Structural BIM Engineer
- MEP BIM Engineer
- BIM Technician
- BIM Visualization Specialist
- Junior BIM Manager
- Design Coordinator
- Construction BIM Specialist

# Key Benefits of the Program

## ✓ **Industry-Oriented BIM Curriculum**

Aligned with current AEC industry standards covering architectural, structural, and MEP BIM workflows.

## ✓ **Multi-Disciplinary Software Expertise**

Hands-on training in AutoCAD, Revit Architecture, Revit Structure, Revit MEP, Navisworks, and Enscape.

## ✓ **Real-Time Project Experience**

Work on live residential and commercial BIM projects with coordination and clash detection.

## ✓ **Advanced Coordination Skills**

Master clash detection, model coordination, and collaborative BIM workflows.

## ✓ **Global BIM Standards Knowledge**

Learn BEP, ISO 19650, LOD, LOIN, and international BIM best practices.

## ✓ **Professional Visualization Skills**

Create real-time renderings, walkthroughs, and client-ready presentations.

## ✓ **Job-Ready BIM Portfolio**

Develop a strong portfolio with BIM models, drawings, and coordination reports.

## ✓ **Career & Placement Support**

Resume guidance, interview preparation, and placement assistance for BIM roles.

# Course Structure

**Duration: 10 Hours**

## Module 1: Fundamentals of BIM

### Topics:

- Introduction to BIM concepts and evolution
- Difference between CAD and BIM
- BIM dimensions (3D, 4D, 5D, 6D, 7D)
- BIM project lifecycle
- Roles and responsibilities in a BIM project
- BIM use cases across design, construction & facility management

## Module 2: BIM Tools and Software (Key Tools to Master)

**Duration: 80 Hours**

### Topics:

### **AutoCAD – 2D Drafting (Architectural & Construction)**

- Drafting standards and layers
- Architectural, structural & MEP drawings
- Plans, sections, elevations, and details
- Annotation, blocks, and plotting standards

### **Revit Architecture**

- BIM interface and project setup
- Walls, floors, roofs, doors, windows
- Site planning and massing
- Views, sheets, schedules & documentation
- Design coordination with structure & MEP

## **Revit Structure**

- Structural grids and levels
- Columns, beams, slabs & foundations
- Reinforcement detailing
- Steel structure modeling
- Structural documentation and schedules

## **Revit MEP**

- HVAC systems and ductwork
- Electrical layouts and circuits
- Plumbing and fire-fighting systems
- System coordination and connectivity
- MEP schedules and reports

## **Navisworks**

- Model aggregation from multiple disciplines
- Clash detection and interference checks
- Clash reporting and coordination workflows
- 4D construction simulation (time-based)
- BIM coordination meetings and issue tracking

## **Enscape (Real-Time Visualization)**

- Real-time rendering setup
- Lighting, materials, and textures
- Walkthroughs and VR-ready presentations
- Client-ready visualization and presentations

## Module 3: BIM Process and Workflow

### Topics:

**Duration: 20 Hours**

- BIM Execution Plan (BEP)
- Model coordination workflows
- Data exchange and interoperability
- Common Data Environment (CDE)
- Model versioning and collaboration
- BIM in design development and construction stages

## Module 4: Level of Development (LOD) & Level of Information Need (LOIN)

### Topics:

**Duration: 20 Hours**

- Understanding LOD 100–500
- Application of LOD in different project stages
- Concept of LOIN as per ISO standards
- Model accuracy vs project requirements
- Deliverables and model responsibility matrix

## Module 5: BIM Standards and Guidelines

### Topics:

**Duration: 10 Hours**

- International BIM standards overview
- ISO 19650 framework
- National BIM guidelines
- Naming conventions and data standards
- Quality control and model audits
- BIM documentation and compliance

## Module 6: BIM Collaboration and Coordination

### Topics:

**Duration: 10 Hours**

- Multidisciplinary coordination strategies
- Clash resolution and coordination workflows
- Client, consultant & contractor collaboration
- BIM coordination meetings simulation
- Issue tracking and reporting
- BIM handover and as-built models

## Live Projects & Practical Training

### Topics:

**Duration: 10 Hours**

- Residential BIM Project (Arch + Struct + MEP)
- Commercial Building BIM Project
- Clash detection and coordination reports
- 4D simulation & construction sequencing
- BIM visualization and walkthrough presentation
- Industry-style deliverables and documentation

## Outcomes of the Program

Develop complete BIM models for architecture, structure & MEP

Coordinate multidisciplinary BIM projects efficiently

Perform clash detection and resolve design conflicts

Create accurate construction documentation

Deliver client-ready visualizations and presentations

Work confidently in BIM-based AEC environments

## Career Roles After Completion

BIM Modeler (Architecture / Structure / MEP)

BIM Engineer

Revit Architect / Structural BIM Engineer

MEP BIM Engineer

BIM Visualization Specialist

Construction BIM Specialist

THANK YOU!



# Contact Us

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