

Autodesk Forma Professional

Course Objectives

- To provide comprehensive knowledge of the Autodesk Construction Cloud (ACC) platform and its applications in construction project management and BIM collaboration.
- To develop practical skills in managing project documents, design collaboration, model coordination, RFIs, submittals, and field workflows using ACC tools.
- To enable participants to streamline communication and collaboration among project stakeholders through cloud-based workflows.
- To train learners in project tracking, issue management, reporting, and analytics for efficient project delivery and decision-making.
- To prepare professionals to implement industry best practices for digital construction management, coordination, and project lifecycle management.

Course Outcomes

After completing this course, participants will be able to:

- Understand the complete Autodesk Construction Cloud ecosystem and configure projects effectively.
- Manage construction documents, drawings, revisions, and approvals using Autodesk Docs.
- Perform BIM collaboration, clash detection, issue tracking, and coordination using BIM Collaborate and BIM Collaborate Pro.
- Execute project management workflows such as RFIs, submittals, meetings, quality checks, and field reporting using Autodesk Build.
- Generate reports, dashboards, and project insights to improve project monitoring and decision-making.
- Collaborate efficiently with multidisciplinary teams using cloud-based and mobile workflows.

Target Audience

This course is ideal for:

- BIM Engineers and BIM Coordinators
- Architects, Civil Engineers, and Structural Engineers
- MEP Engineers and Design Consultants
- Construction Project Managers and Site Engineers

- Contractors, Project Coordinators, and QA/QC Professionals
- Professionals involved in digital construction, project collaboration, and BIM-based project delivery
- Students and fresh graduates interested in construction technology and cloud-based project management systems

Course Outline: The course comprises **32-hours** of theory and labs and is divided into **10** different Modules. Each chapter will be followed by hands-on lab exercises to reinforce learning and gauge understanding of the topics covered.

Table of Contents

Module 1: Introduction to Autodesk Forma

- 1.1 Overview of Autodesk Forma Platform
- 1.2 Products and Ecosystem
- 1.3 Benefits of Cloud-Based Construction Management
- 1.4 ACC vs BIM 360
- 1.5 ACC Interface and Navigation
- 1.6 User Roles, Permissions, and Access Control
- 1.7 Project Lifecycle Management in ACC

Module 2: Account and Project Administration

- 2.1 Creating and Managing ACC Accounts
- 2.2 Setting Up Projects
- 2.3 Company Profiles and Member Management
- 2.4 Permission Levels and Role Assignments
- 2.5 Templates and Standards Management
- 2.6 Folder Structures and Naming Conventions
- 2.7 Project Settings and Configuration

Module 3: Forma Data Management

- 3.1 Introduction to Autodesk Docs
- 3.2 Document Management Workflow
- 3.3 Uploading and Organizing Files
- 3.4 Version Control and Revision Management
- 3.5 Markups and Collaboration Tools
- 3.6 Transmittals and File Sharing
- 3.7 Review and Approval Workflows
- 3.8 Mobile Access and Field Collaboration

Module 4: Forma Design Collaboration

- 4.1 Introduction to BIM Collaboration
- 4.2 Design Collaboration Concepts
- 4.3 Creating and Managing Teams
- 4.4 Shared and Consumed Packages
- 4.5 Coordination Spaces and Workflows
- 4.6 Clash Detection and Coordination
- 4.7 Issue Tracking and Resolution
- 4.8 Model Aggregation and Visualization
- 4.9 Revit Cloud Worksharing
- 4.10 Collaboration Across Disciplines

Module 5: Forma Build – Project Management

- 5.1 Introduction to Autodesk Build
- 5.2 Project Dashboards and Home Screen
- 5.3 RFIs (Requests for Information)
- 5.4 Submittals Management
- 5.5 Meeting Management
- 5.6 Schedule Management
- 5.7 Forms and Checklists
- 5.8 Daily Reports and Site Logs
- 5.9 Asset Tracking and Management
- 5.10 Cost Management Overview

Module 6: Field Management and Site Execution

- 6.1 Site Collaboration Workflows
- 6.2 Quality and Safety Management
- 6.3 Creating Inspections and Checklists
- 6.4 Managing Site Issues
- 6.5 Punch Lists and Snagging
- 6.6 Field Data Collection Using Mobile Devices
- 6.7 Photo Documentation and Reporting
- 6.8 Offline Access and Synchronization

Module 7: Model Coordination and Clash Detection

- 7.1 Model Coordination Fundamentals
- 7.2 Uploading and Managing Models
- 7.3 Automated Clash Detection
- 7.4 Clash Grouping and Classification
- 7.5 Coordination Meetings and Reporting
- 7.6 Issue Assignment and Tracking
- 7.7 Federated Model Review
- 7.8 Best Practices for Coordination

Module 8: Cost and Budget Management

- 8.1 Introduction to Cost Management
- 8.2 Budget Setup and Tracking
- 8.3 Contracts and Change Orders
- 8.4 Payment Applications and Invoicing
- 8.5 Forecasting and Financial Reporting
- 8.6 Cost Analysis Dashboards
- 8.7 Integration with ERP Systems

Module 9: Forma Insight

- 9.1 ACC Insights Dashboard
- 9.2 Creating Custom Reports
- 9.3 Data Analysis and Visualization
- 9.4 Tracking KPIs and Project Performance
- 9.5 Exporting Reports and Data
- 9.6 Executive Reporting Workflows

Module 10: Integration with Autodesk and Third-Party Applications

- 10.1 Revit Integration with ACC
- 10.2 AutoCAD and Civil 3D Connectivity
- 10.3 Navisworks Coordination Workflow
- 10.4 Integration with Microsoft Tools
- 10.5 APIs and Third-Party Integrations
- 10.6 Data Exchange and Interoperability