Live Coaching
FOR BUILDING DESIGN

Presenter Name
Presenter Title | @socialmedia
About Accelerators
Accelerators help you unlock the potential of Autodesk® technology.

Accelerators
Easy-to-access services built on Autodesk best-practices

Capabilities
Your technology, workflow, data, and organizational abilities

Outcomes
Measurable goals your business wants to achieve
How do Adoption Accelerators work?

Meet with your CSM and a subject matter expert to contextualize the content for your team.

Discover Session

Meet with your CSM and a subject matter expert to contextualize the content for your team.

(30-60 minutes)

Coaching Session

Sessions are led by an Autodesk expert, introducing users to new technology or demonstrating workflows with Q&A.

(60-120 minutes)

Materials & Feedback

We’ll provide the session recording and presentation materials, and participants are encouraged to provide feedback on the Accelerator through a survey.

(10 minutes)
Easy-to-access coaching sessions from Autodesk

**Introduction to**
Get familiar with the latest technologies & features

**Examples**
- Introduction to: BIM 360 Design
- Introduction to: Forge (General)
- Introduction to: Parameters in Revit

**How to**
Learn key workflows that solve specific challenges

**Examples**
- How to: Set up Revit for AEC Projects
- How to: Create hi-end visualizations using Arnold
- How to: Conduct Upfront CFD Fundamentals
If your company has an Enterprise plan with Autodesk, you can schedule Accelerators with your Autodesk Customer Success Manager (CSM)

If you are unsure of how to contact your Customer Success Manager, submit a request and we will connect you

Find Accelerators for more industries and learn more about Autodesk Customer Success
Accelerator Details
FOR BUILDING DESIGN
Coaching Session

Introduction to
- IT Readiness for BIM 360
- Forge (General)
- BIM 360 Design
- Conceptual design with FormIt Pro
- Parameters in Revit
- Dynamo for linear structures
- InfraWorks for site planning and logistics
- Computational Fluid Dynamics (CFD)

How to
- Set up a project in BIM 360 Docs
- Create issues and manage documents in BIM 360 Docs
- Communicate changes in BIM 360 Docs
- Optimize BIM data for visualization
- Start and administer a project in BIM 360 Design
- Collaborate in BIM 360 Design (Part 1)
- Collaborate in BIM 360 Design (Part 2)
- Collaborate in BIM 360 Design (Part 3)
- Set up Model Coordination in BIM 360
- Coordinate and resolve clashes in BIM 360
- Automate Revit design workflows with Dynamo
- Set up Revit for AEC projects
- Create a continuity plan for Revit cloud worksharing
- Manage Revit Families
- Visualize Revit models in 3ds Max
- Detect and resolve clashes in Revit
- Review models with visualized walkthroughs
- Review models and identify coordination issues with Navisworks
- Create high-end visualizations using Arnold
- View Digital Twins with Augmented Reality
- Manage data with Forge
- Get people moving with confidence (COVID-19)
- Plan space for health guidelines (COVID-19)
- Design for safer air quality
- Run Clash Detection in Revit for Quick Model QA Checks
- Reviewing, Managing and Resolving Clashes with Revit & ACC
- Run Clash Detection with Navisworks and BIM Collaborate Pro
- Set Folder Structures & Permissions in Autodesk Docs
- Set Folder Structures & Permissions in Autodesk BIM Collaborate
- Reduce field conflicts with clear 3D Coordination Standards
- Adopt AutoCAD’s Latest Design Productivity Enhancements
- Improve Design Review Efficiency in AutoCAD
- Modernize Collaboration when using AutoCAD
- AutoCAD Graphics Improvements
- AutoCAD User Interface Enhancements
- AutoCAD Performance Enhancements
How to: Set up a project in BIM 360 Docs

Learn how the BIM 360® Docs ecosystem works, how to set up a project folder structure with permissions, and how to upload record documents.

### Topics
- BIM 360 Docs modules
  - Document Management
  - Desktop Connector
  - Project Home
  - Insight
- Creating a project
- Project settings
- Folder structure
  - Plans vs. project files
- Folder permissions
- Plans upload

### Who it’s for
- VDC Manager
- Project Engineer
- Field Engineer
- Project Manager
- Project Controls

### Capabilities
- Coordination
- Quality Management
- Cost Management
- Design Collaboration
- Commissioning
- Document Management

### Prerequisites
- Enterprise Success Program
- Attendees should have basic knowledge of BIM 360 Docs
Learn how to use BIM 360® Docs to log issues on site, approve and send documents, and use record documents in the field.

**Topics**
- Mark-ups
  - Permissions
  - Creation and visibility
  - Reviewing mark-ups
- Issues
  - Permissions
  - Creating an issue
- Reviews
  - Creating an approval workflow
  - Submitting documents for review
  - Monitoring reviews
  - Reviewing and approving documents
  - Transmittals
    - When and how to use transmittals
    - Creating a transmittal
  - Accessing documents on mobile devices
- Issues
  - Permissions
  - Creating an issue
- Reviews
  - Creating an approval workflow
  - Submitting documents for review
  - Monitoring reviews

**Who it’s for**
- VDC Managers
- Project Engineers & Field Engineers
- Project Managers
- Project Controls
- Architects

**Capabilities**
- Design Collaboration
- Document Management

**Prerequisites**
- Enterprise Success Program
- Attendees should have basic knowledge of BIM 360 Docs
How to: Communicate changes in BIM 360 Docs

Learn how to organize, update, and compare project documents and resolve issues in BIM 360® Docs.

Topics
- Sets
  - How to categorize file sets
  - The sets module
  - Creating new sets
- Versioning and comparing
  - Creating a new version of a document
  - Comparing documents
  - Versioning of model files
- Markups
  - How to use markups and hyperlinks together
  - Using attachments to markups
- Reports

Who it’s for
- VDC Manager
- Project Engineer
- Field Engineer
- Project Manager
- Project Controls

Prerequisites
- Enterprise Success Program
- Attendees should have basic knowledge of BIM 360 Docs

Capabilities
- Document Management
- Design Collaboration
Get familiar with functionalities of Autodesk Forge™, what tools are required to use it, and how to set up a team for application development.

Topics
- Understanding APIs
- Forge Overview
  - Common applications of Forge
  - The Forge business architecture
  - Adding Forge to an EBA
- Building online workflows and experiences around your design data
- Practical Forge use cases
- Setting up a team
- Where to get development and support resources
- Functionalities of each component of Forge

Who it’s for
- Project Managers
- BIM Managers
- BIM Leads
- Project Engineers

Prerequisites
- Enterprise Success Program
- Attendees have access to Forge

Capabilities
- Cloud-based Process Automation
- Data Enrichment
- Management and Delivery
How to: Review models and identify coordination issues with Navisworks

Learn how to create and navigate a federated model, control visibility, create viewpoints, create mark-ups, and run clash detection between trades using Navisworks®.

Topics
- Why you should use Navisworks for federated models
- Types of Navisworks files
- Appending models in Navisworks
- Creating a federated model demo video
- Navigating a model
- Controlling visibility
  - Toolset options
  - Sectioning plane and box
- Managing toolset options for viewpoints and mark-ups
- Running clash detection between trades

Who it’s for
- BIM Manager
- VDC Manager
- BIM Manager
- IT Manager
- Design Technologist

Prerequisites
- Enterprise Success Program
- Basic knowledge on any BIM authoring tool such as Revit® is recommended

Capabilities
- Coordination
- Design Coordination and Review
Introduction to: Conceptual design with FormIt® Pro

Get familiar with conceptual design using generative design, BIM workflows, simulation, and visualization in FormIt®.

**Topics**
- Understanding the state of the industry
  - Conceptual design in architecture
  - Interoperability with BIM processes
- Working smarter with BIM-based conceptual design
- Creating design concepts with intuitive tools
- Analyzing designs early in the process
- Sketching on tablets and mobile devices
  - Transitioning between tablet and desktop applications
- Integrating FormIt with Dynamo Studio
  - Advanced geometry for generative design
  - Connecting FormIt and Revit
- Modeling
  - Introduction to modelling
  - Advanced modelling
  - Sketching and manipulation
  - Advanced geometry
- Visualizing models
- Simulating and visualizing water tightness
- Performing insight integration for energy analyses

**Who it’s for**
- Design Principals
- Architects
- Designers
- Computational Designers

**Prerequisites**
- Enterprise Success Program
- Basic knowledge on any BIM authoring tool such as Revit® is recommended

**Capabilities**
- Conceptual Design
Learn how to make data visualization easier by analyzing the contents of your scene and applying different optimization methods.

**Topics**

- Understanding the need for optimization
  - Overview
  - Hardware constraints
  - VR
  - Rendering
- Analyzing the contents of your scene files
  - CAD to 3ds Max® workflow
  - Revit import
  - Large objects & groups
- Optimization approaches
  - Automatic optimization
  - Tools
    - Replacing objects
    - Asset libraries
    - Optimization results
  - Material workflow
    - Improving visual fidelity
    - Lights
    - Export from 3ds Max

**Who it’s for**

- BIM Manager
- Visualization Specialist
- Architectural Designer
- Lighting Designer

**Prerequisites**

- Enterprise Success Program
- Attendees have a basic understanding of Revit® and 3ds Max

**Capabilities**

- Visualization
- Design Authoring
- Design Detailing
- Visualizations & Animations
- Rendering
Get familiar with BIM 360® Design features and workflows including account and project administration, Revit® cloud worksharing, document management, and design collaboration.

**Topics**
- The BIM 360 Platform
- Introduction to BIM 360 Design
  - Desktop Connector
  - Security
  - Autodesk Health Dashboard
- Revit Cloud Worksharing
  - Syncing and initiation
  - Managing cloud models
  - Publishing
- Account and Project Administration
- Document Management
  - Plans and project files
  - Document sets
  - Folders and organization
- Design Collaboration
  - Publishing, sharing, and consuming
- BIM 360 Design accelerators

**Who it’s for**
- Architects
- Engineers
- Administrators
- Project Managers
- Job Captains
- BIM Managers

**Prerequisites**
- Enterprise Success Program
- Attendees have access to BIM 360 Design

**Capabilities**
- Document Management
- Model Co-authoring
- Design Coordination and Review
How to: Start and administer a project in BIM 360 Design

Learn how to administer the BIM 360® account site and start a BIM 360 Design project.

Topics
- BIM 360 roles
- Autodesk account roles and entitlements
- Account admin tasks
  - Adding to the account member directory
  - Importing members by spreadsheet
  - Editing account members
  - Account IDs
- Project set-up
  - Adding admins and members
  - Creating folders
- Folder structure
- Creating folders with Desktop Connector
- Administration best practices
- Managing teams
  - Adding members to teams and folders
  - Folder permission levels
  - Setting the Revit® release version

Who it’s for
- Administrators
- Project Managers
- Job Captains
- BIM Managers

Prerequisites
- Enterprise Success Program
- Attendees should have basic knowledge of BIM 360 Design

Capabilities
- Model Co-authoring
- IT Infrastructure Readiness
Learn how to create realistic visualizations with your CAD data in the Arnold Renderer for 3ds Max®.

**Topics**
- Arnold Renderer Overview
- Installing the Arnold Renderer
- Setting up a 3ds Max scene
- Setting up a render
- Denoise solutions
- Switching between rendering on the GPU and CPU

**Who it’s for**
- Project Managers
- Visualization Specialists
- CAD Engineers

**Prerequisites**
- Enterprise Success Program
- Users have basic knowledge of 3ds Max and Revit®

**Capabilities**
- Rendering
How to: Collaborate in BIM 360 Design (Part 1)

Learn how to package, link, and publish Revit® models in BIM 360® Design.

Topics
- Review of BIM 360 Design modules
- 4 methods for getting Revit models and data into a BIM 360 project
- Linking methods for cloud-initiated Revit models
  - Live linking
  - Shared linking
  - Consumed linking
  - Sharing and consuming a package
  - Linking methods for other files
- Publishing workflows

Who it’s for
- Administrators
- Project Managers
- Job Captains
- BIM Managers

Prerequisites
- Enterprise Success Program
- Attendees should have basic knowledge of BIM 360 Design

Capabilities
- Model Co-authoring
How to: Collaborate in BIM 360 Design (Part 2)

Learn advanced file sharing workflows in BIM 360® Design including data exchange, hyper-model navigation, and how to create and review issues.

Topics
- Managing data exchange
- Aggregated project model navigation
- Create and review issues
- Review model changes

Who it’s for
- Administrators
- Project Managers
- Job Captains
- BIM Managers

Prerequisites
- Enterprise Success Program
- Attendees should have basic knowledge of BIM 360 Design

Capabilities
- Model Co-authoring
How to: Collaborate in BIM 360 Design (Part 3)

Review best-practices for collaborating in BIM 360® Design and learn how to backup/recover files and troubleshoot issues.

Topics
- The Revit cloud worksharing platform
  - Edge caching
  - Compliance
- Folder structure
- Project set-up and management
- Linking (live, shared, and consumed linking)
- Revit modeling
- Hosting and parametric relationships
- Model maintenance
- Requirements for hardware and bandwidth
- Collaboration
  - PAC and collaboration cache
  - Publishing from Revit®
  - The design automation API for Revit
- Backup and recovery
  - Restoring and downloading
  - Force relinquish of element ownership
- Troubleshooting strategies
- How to read and gather GUID information

Who it’s for
- Administrators
- Project Managers
- Job Captains
- BIM Managers

Prerequisites
- Enterprise Success Program
- Attendees should have basic knowledge of Revit and BIM 360 Design

Capabilities
- Model Co-authoring
Introduction to: Dynamo for linear structures

Learn how to use Dynamo to access Autodesk® AutoCAD® and Civil 3D® data, build your own graph, and automate repetitive tasks.

Topics
- Computational BIM overview
- Dynamo for Civil 3D
  - AutoCAD nodes
  - The Civil 3D node hierarchy
- Examples
  - From linear to cartesian system
  - Discrete element placement
  - Transformation
  - Adding attributes
  - Geometry creation

Who it’s for
- BIM Managers
- Civil Engineers

Prerequisites
- Enterprise Success Program
- Attendees should have a basic understanding of Civil 3D & Dynamo

Capabilities
- Computational Design
How to: View Digital Twins with Augmented Reality

Learn how to connect CAD data streams to rich AR/VR environments using Autodesk® Forge®.

Topics
- Achieving digital transformation with Forge platform
- Preparing CAD models for AR/VR workflows
  - The AR/VR toolkit
  - The administration console
  - The translation pipeline
  - gITF output
- Authoring AR/VR instructions
- Solution architecture

Who it’s for
- IT Managers
- Manufacturing Engineers
- Field Engineers
- Service Technicians

Capabilities
- AR / VR / Immersive Design

Prerequisites
- Enterprise Success Program
- Attendees should have basic knowledge of the Forge platform and AR/VR technologies
How to: Set up Model Coordination in BIM 360

Learn how to set up model coordination, perform clash detection, and resolve coordination issues in Autodesk® BIM 360®.

Topics
- Setting up coordination spaces
  - Creating coordination spaces
  - Overview of coordination spaces
- Assigning permissions
- Managing models
- Working with Revit, AutoCAD, and IFC files
- Creating saved views

Who it’s for
- VDC Managers
- VDC Engineers
- Architects
- MEP Engineers

Prerequisites
- Enterprise Success Program
- Attendees understand how the Plans Folder works within Document Management
- BIM 360 Tenant enabled

Capabilities
- Coordination
- Construction Administration
- Design Coordination and Review
Learn how to review models, resolve clashes, and address problems before they reach the construction site with BIM 360®.

**Topics**
- Aggregating models
- Creating model views
- Navigating models
- Viewing clashes
- Creating issues from clashes
- Distributing issue reports
- Model updates

**Who it’s for**
- VDC Managers
- VDC Engineers
- Architects
- MEP Engineers

**Prerequisites**
- Enterprise Success Program
- Attendees understand how to enable Model Coordination
- Attendees have BIM 360 Tenant enabled

**Capabilities**
- Coordination
- Design Coordination and Review
How to: Automate Revit design workflows with Dynamo

Learn how to build, organize, and document graphs and identify relevant Revit® tasks for automation with Autodesk® Dynamo®.

Topics
- Understanding the BIM workflow
- Visual programming and textual code
- Managing Revit parameters
- Creating Revit elements
- Connecting Revit with Excel
- Lists and lacing
- Code block syntax
- Overview of Dynamo versions and Dynamo Player

Who it’s for
- BIM Managers
- Advanced Revit Users

Prerequisites
- Enterprise Success Program
- Attendees should have advanced knowledge of Revit

Capabilities
- Process Automation
- Computational Design
Learn how to set up Autodesk® Forge™ and develop applications using the authentication, data management, and BIM 360® APIs.

**Topics**
- Setting up Forge
  - Your Autodesk ID and Forge account
  - Forge apps
  - Securing Forge apps
  - Tracking usage
- The authentication API
  - Using OAuth2
  - Overview of OAuth
  - Client IDs and secrets
  - Types of authentication
  - Access tokens
  - Authentication scopes
- The data management API
  - Transferring data between Autodesk and storage
  - Uploading objects
  - Uploading files
- The BIM 360 API
  - Adding custom integration
  - BIM 360 Issues Editor
  - Supported operations

**Who it’s for**
- Web Developers
- Desktop Programmers
- Project Managers
- BIM Specialists
- BIM Managers

**Prerequisites**
- Enterprise Success Program
- Attendees should have a basic understanding of Forge

**Capabilities**
- Cloud-based Process Automation
Get familiar with Autodesk® CFD workflows to predict product performance, optimize designs, and validate product behavior before manufacturing.

**Topics**
- Overview of workflows and CFD set-up
  - Geometry
  - Materials
  - Boundary Conditions
  - Meshing
  - Solve
- Results interpretation for CFD studies and decision making
- Understanding CAD to CFD interoperability
- Applying relevant changes to optimize a model for Simulation

**Who it’s for**
- Project Managers
- CAD Managers
- Architects/Engineers

**Prerequisites**
- Enterprise Success Program

**Capabilities**
- Simulation
- CFD Analysis
How to: Set up Revit for AEC projects

Learn about project templates, coordinate systems, model strategy, model maintenance, working with links, and performance best practices in Autodesk® Revit®.

Topics
- Before starting a project
  - Project Templates
  - View Templates
  - Transfer Project Standards
  - System Family files library
- Coordinate Systems
- Model Strategy
  - Model size - Split Model
  - Concept of Model file / Layout file
  - Worksharing and Worksets
- Model Maintenance
  - Audit / Purge / Compact
  - Warnings
  - Review using Schedules
- Working with Links
  - About linking *.rvt
  - Levels and grids. Copy/Monitor
  - About linking *.ifc
  - About linking *.dwg
- Performance Best Practices
  - Revit Updates
  - Revit Links
  - Model Groups
  - Rooms & Spaces
  - Views
  - Automation with Dynamo
    - Excel data transfer
    - Family Management
    - Export warnings and impacted element’s ID to Excel

Who it’s for
- BIM Manager
- Revit Users
- Project Manager

Prerequisites
- Enterprise Success Program
- Attendees should have a basic understanding of Revit

Capabilities
- Model Authoring
- Civil Structure Model Authoring
- Design Detailing
- Design Authoring
Learn how to create a company strategy for handling a Revit® cloud work sharing outage with minimal disruption to your business.

### Topics
- What a cloud outage means for your project infrastructure
- Checking Revit Cloud Worksharing status
  - How to verify a service outage
  - How to secure a project
- Solutions for cloud outages and their consequences
- Establishing your own company strategy

### Who it’s for
- BIM Managers
- VDC Specialists
- Project Managers
- Revit Designers
- Design Leads
- Operational IT

### Prerequisites
- Enterprise Success Program
- Attendees should be familiar with the connected workflows between Revit and BIM 360® Design

### Capabilities
- Model Co-authoring
Introduction to: Parameters in Revit

Learn how to use project, family, shared, and global parameters to define and modify elements and communicate model information in Revit®.

Topics

- Overview of Revit parameters
- Selecting which parameter to use
- Types of parameters
  - Shared parameters
  - Project parameters
  - Global parameters
  - Family parameters
  - The Dynamo managing parameter
- Managing parameters
- Best practices

Who it’s for

- Building Engineers
- MEP Engineers
- Structural Engineers
- BIM Managers
- BIM Designers

Prerequisites

- Enterprise Success Program
- Attendees should have a basic understanding of AEC design and Revit

Capabilities

- Model Authoring
- Design Detailing
- Design Authoring
- Civil Structure Model Authoring
How to: Manage Revit Families

Learn how to create Revit® families, use advanced loading techniques, and work with families on a project.

Topics
- Overview of Revit families
- Revit elements
- Kinds of families
  - System families
  - Loadable families
  - In-place families
- Host-based and standalone families
- Cuttable & non-cuttable families
- Working with solids & voids
- Creating Revit Families
- Family parameters
- Reference planes
- Reference lines
- Advanced loadable Revit family techniques
  - Nesting families
  - Work plane-based families
  - Vertical families
  - Room-aware families
- Revit family and project interaction
  - Replacing a family
  - Loaded families
  - Type catalogs
  - Upgrade families
  - Automation with Dynamo

Who it’s for
- Building Engineers
- MEP Engineers
- Structural Engineers
- BIM Managers
- BIM Designers

Prerequisites
- Enterprise Success Program
- Attendees should have basic knowledge in Revit

Capabilities
- Model Authoring
- Civil Structure Model Authoring
- Design Authoring
- Design Detailing
How to: Visualize Revit models in 3ds Max

Learn how to quickly create beautiful renderings of Revit® models in 3ds Max® using the Arnold Renderer.

Topics
- Model preparation in Revit
- Setting up 3ds Max
- Importing Revit files into 3ds Max
- Setting up scenes in 3ds Max
- Scene Converter
- Arnold Lighting
- Arnold Rendering

Who it’s for
- Architectural Designers
- Project Architects
- Visualization Specialists

Prerequisites
- Enterprise Success Program
- Users have basic knowledge of 3ds Max and Revit

Capabilities
- Rendering
Topics

- Reviewing clashes using 2D DWG overlay
  - Checking detection in Revit
  - Interference check in Revit
  - Revit warnings on overlapping elements
- Integrating Revit with Navisworks and BIM 360 for clash detection
  - Clash detection features in Navisworks
  - Uploading Revit files to BIM 360 model coordination
- Detecting and resolving clashes with Dynamo
  - Viewing clashes in Revit
  - HTML interference report exported from Revit
  - Parsing and extracting the element IDs
  - Creating a generic model to be placed at clash locations
  - Placing the clash family and filter by levels

Who it’s for

- Architects
- Design Engineers

Prerequisites

- Enterprise Success Program
- Attendees should have a working knowledge of Revit

Capabilities

- Design Coordination and Review
- Coordination
How to: Review models with visualized walkthroughs

Learn how to navigate an immersive, animated walk-through of a federated model to identify problems using Navisworks®.

Topics

- Preparing federated models for review
  - Navisworks file formats
  - Appending and merging models
  - Transforming models
  - The Appearance profiler
  - Grid and levels
  - Sectioning
- Real-time navigation
  - Steering Wheels
  - View Cube
  - Controlling the realism of your navigation
  - Custom avatars
- Viewpoints
- Reviewing models
- Selecting objects and finding models
- Output viewports and resolving issues

Who it’s for

- Project Leads
- Project Managers
- Field/Site Engineers
- Superintendents

Prerequisites

- Enterprise Success Program
- Attendees should have a working knowledge of Navisworks

Capabilities

- Coordination
- Visualization
- Design Coordination and Review
How to: Design for safer air quality

Learn how to identify areas of risk in buildings and explore mitigation strategies for occupant safety using Autodesk® CFD.

Topics
- Overview of safer air quality
- CFD for air quality applications
- CFD for IAQ simulations
  - Setting up CFD for indoor air quality
  - Geometry detail
  - Geometry generation
  - Materials
  - Boundary conditions
  - Meshing
  - Solve Dialog
- Determining the Local Mean Age (LMA) of air
- Using Traces
  - Distancing optimization
  - Office layout comparison

Who it’s for
- Site Execution Manager
- Preconstruction Managers
- Simulation Consultant
- Preconstruction Planner/Manager
- Project Manager
- BIM Manager
- Mechanical Engineer
- Project Manager
- Project Leaders
- Project Lead

Capabilities
- Simulation

Prerequisites
- Enterprise Success Program
- Attendees should have a basic knowledge of Fusion 360 and Revit
Get familiar with planning construction sites in a live environment in InfraWorks® using design data, proposals, and traffic simulation.

**Topics**
- InfraWorks
- Civil 3D
- Traffic simulation
- Point Cloud

**Who it’s for**
- Site Execution Managers
- Schedulers
- Designers

**Prerequisites**
- Enterprise Success Program
- Attendees should have a basic working knowledge of Civil 3D® and InfraWorks

**Capabilities**
- Visualization
Learn how to model how people move in closed spaces to assess social distancing and adherence to WHO guidelines.

Topics
- Introduction to Mobility Simulation
- Modeling people's movement in large and small enclosed public spaces
- COVID-19 challenges constraining design
- Mobility simulation's applications to COVID-19 challenges

Who it’s for
- Architectural Designers
- Site/ Resident Engineers
- Land/Site Designers
- Landscape Architects
- Urban Planners
- Municipal/Urban Engineering

Prerequisites
- Enterprise Success Program

Capabilities
- Simulation
- Mobility Simulation
Learn how to plan workspaces that adhere to health guidelines with generative design in Revit®.

**Topics**
- Aligning space planning with health guidelines
- Generative design in Revit
- Understanding the generative design approach
- Exploring and integrating selected outcomes
- Understanding space planning tools in Revit
- Sample study in Dynamo

**Who it’s for**
- Architectural Designers
- Generative Designers
- Computational Designers

**Prerequisites**
- Enterprise Success Program
- Attendees should have a basic familiarity with Revit

**Capabilities**
- Generative Design
Introduction to: IT Readiness for BIM 360

Get assistance from Autodesk® experts to review and evaluate your IT infrastructure readiness for Autodesk BIM 360® cloud services.

Topics
- Discovery of your current system and network infrastructure
- Identifying offices/sites that will adopt Autodesk cloud services
- A detailed walkthrough of system and network requirements
- Best practices for Autodesk cloud services
- Metrics and data gathering with technical tools

Who it’s for
- IT Managers

Prerequisites
- Enterprise Success Program

Capabilities
- IT Infrastructure Readiness
Introduction to: InfraWorks for site planning and logistics

Get familiar with planning construction sites in a live environment in InfraWorks® using design data, proposals, and traffic simulation.

Topics
- InfraWorks
- Civil 3D
- Traffic simulation
- Point Cloud

Who it’s for
- Site Execution Managers
- Schedulers
- Designers

Prerequisites
- Enterprise Business Agreement (EBA)
- Attendees should have a basic working knowledge of Civil 3D and InfraWorks

Capabilities
- Visualization
Introduction to: Dynamo for linear structures

Learn how to use Dynamo to access Autodesk® AutoCAD® and Civil 3D® data, build your own graph, and automate repetitive tasks.

Topics
- Computational BIM overview
- Dynamo for Civil 3D
  - AutoCAD nodes
  - The Civil 3D node hierarchy
- Examples
  - From linear to cartesian system
  - Discrete element placement
  - Transformation
  - Adding attributes
  - Geometry creation

Who it’s for
- BIM Managers
- Civil Engineers

Capabilities
- Computational Design

Prerequisites
- Enterprise Success Program
- Attendees should have a basic understanding of Civil 3D & Dynamo
Run Clash Detection in Revit for Quick Model QA Checks

Learn how to conduct a clash detection directly within Revit so that you can instantly see where your clashes are and fix the clash, refresh the report, and resolve the interferences without having to export a model or leave Revit at all.

**Topics**
- See how a typical project is linked together by understanding common linking methods
- Find and execute the Interference Check command
- Choose the Find function to locate specific clashes in the model
- Review the clash after the Interference dialog has been closed
- Use the split and move commands to clear the clashes found
- Use the Export function to create an HTML file containing the clashes

**Who it’s for**
- Architectural Designers
- MEP Designers

**Prerequisites**
- Access to Revit
- Basic knowledge of building construction methods and cursory knowledge of Revit (recommended)

**Capabilities**
- Design Coordination and Review
Use the Issues add-on for Revit to download and review the issues created from the clashes in the Model Coordination environment on the ACC platform. Edit the clashing elements to resolve clashes and update the issue status in Revit to be reflected in the cloud workspace.

**Topics**
- Download and install Issues Add-on for Revit to access issues from the ACC workspace
- Access clash issues from the Model Coordination module inside Revit
- Resolve clashes inside Revit and update the issue status
- Review the resolved clashes from the Model Coordination interface on ACC and close the issues related to the resolved clashes

**Who it’s for**
- BIM Manager
- Architect
- Structural Engineer

**Prerequisites**
- Basic understanding of Revit and the ACC Platform

**Capabilities**
- Design Coordination and Review
Run Clash Detection with Navisworks and BIM Collaborate Pro

Use the Model Coordination environment to run automated clash tests and create issues on the clashes. Use Navisworks to run advanced clash tests with tolerances using search sets and create issues on clashes.

**Topics**
- Learn about the Model Coordination interface
- Manage clashes by creating and tracking issues
- Append cloud-hosted coordination models in Navisworks to run advanced clash tests
- Create issues from Navisworks that save directly back to the cloud model workspace

**Who it’s for**
- BIM Manager
- Architect
- Structural Engineer

**Prerequisites**
- Basic understanding of Navisworks and the ACC Platform

**Capabilities**
- Design Coordination and Review
In this Accelerator, learn how to create a project site in Autodesk Docs and define the folder structure. You’ll also apply folder permissions to ensure the right people have access to the right data.

**Topics**
- Learn how to accept invitations to Autodesk Docs
- Understand how to create an organized folder structure
- Understand how to assign permission and access to folders
- Learn how to subscribe to folder changes

**Who it’s for**
- CAD Managers
- BIM Managers
- IT
- BIM 360 Admins

**Prerequisites**
- Autodesk Docs
- Know how to create a project in Autodesk Docs
- Know how to invite and configure users
- Know how to upload files

**Capabilities**
- Document Management
In this Accelerator, learn how to create a project site in Autodesk BIM Collaborate and define the folder structure. You’ll also apply folder permissions to ensure the right people have access to the right data.

**Topics**
- Understand how to enable Design Collaboration for a project
- Learn how to create Teams in Design Collaboration
- Understand how to assign permission and access to Team folders
- Learn how to enable email notifications for changes to team packages.

**Who it’s for**
- CAD Managers
- BIM Managers
- IT Admins
- BIM 360 Admins

**Prerequisites**
- Autodesk Docs
- Know how to create a project in Autodesk Docs
- Know how to invite and configure users
- Know how to upload files

**Capabilities**
- Document Management
In this accelerator, you learn how to establish clash detection and review standards involving establishing roles and responsibilities for the key project personas, documenting priorities in the project’s BEP and Clash Detection Matrix.

### Topics
- Define and Assign roles and responsibilities for BIM managers, coordinators, project managers and designers to participate in a coordination process
- Deploy a repeatable and automated (where appropriate) approach for clash avoidance between disciplines
- Streamline collaboration between disciplines
- Collaboratively work on the clash matrix to identify clashes and prioritize them

### Who it’s for
- BIM Managers
- Coordinators
- Project Managers
- Design Leads
- Architects
- Mechanical Designers
- Structural Engineers

### Prerequisites
- Autodesk Revit
- Navisworks
- BIM 360 Model Coordination
- Autodesk Construction Cloud Collaborate (Pro)
- Completion of “Coordinate and resolve clashes with BIM 360” Accelerator
- Completion of “BIM Execution Plan”

### Capabilities
- Design Review
Learn how to take advantage of the latest design productivity enhancements in AutoCAD that have been introduced to automate key design processes.

**Topics**
- Display multiple drawings as separate floating windows.
- Measure distances, angles, and areas of objects using the Quick Measure tool.
- Remove and extend certain parts of objects in a drawing.
- Insert blocks into the current drawing using the various tabs of the Blocks Palette.
- Remove unused or unreferenced elements in a drawing.
- Compare drawings to highlight differences between them.
- Compare the original and the modified externally referenced drawings.
- Create different types of revision clouds and modify their arc length property.
- Create named views and insert them as viewports.
- Modify the viewports in the layout using grips.
- Convert geometric objects that were originally SHX text into Mtext string objects.
- Work with the layer property overrides of the externally referenced drawing files.
- Learn about the various AutoCAD specialized toolsets.

**Who it’s for**
- Engineers
- Designers

**Prerequisites**
- Autodesk Account
- Autodesk AutoCAD

**Capabilities**
- Mechanical Drafting
Learn how to take advantage of the latest features in AutoCAD that have been designed to streamline the design review process.

**Topics**

- Save different versions of the drawing on cloud storage services.
- Compare drawings to highlight differences between them.
- Compare the original and the modified externally referenced drawings.
- Count the blocks and objects in a drawing.
- Mark up a drawing using the Trace tool in the Autodesk AutoCAD web app and review those markups in the AutoCAD desktop software.
- Measure distances, angles, and areas of objects using the Quick Measure tool.
- Remove unused or unreferenced elements in a drawing.
- Create different types of revision clouds and modify their arc length property.

**Who it’s for**

- Engineers
- Designers

**Prerequisites**

- Autodesk Account
- Autodesk AutoCAD

**Capabilities**

- Mechanical Drafting
How to: Modernize Collaboration when using AutoCAD

Achieve better collaboration with both internal and external stakeholders by adopting the latest collaboration tools within AutoCAD.

Topics

- Share a copy of the current drawing on the cloud.
- Open, review, mark up, and edit a shared drawing in the Autodesk AutoCAD web app.
- Share views in the cloud and then to analyze and mark them up in the Autodesk Viewer.
- Save drawings to the cloud to be opened using Internet-connected mobile devices.
- Open the drawings that are saved to the cloud in the AutoCAD desktop software.
- Discover the various cloud collaboration enhancements, such as sharing and managing your files on Autodesk Drive and AutoCAD’s connectivity with Autodesk Drive and other cloud storage providers.
- Understand the Autodesk Docs feature.
- Upload drawing layouts from multiple drawings to an Autodesk Docs project as PDFs.

Who it’s for

- Engineers
- Designers

Prerequisites

- Autodesk Account
- Autodesk AutoCAD

Capabilities

- Mechanical Drafting
AutoCAD Graphics Improvements

Understand what graphical improvements you will benefit from by updating to a newer version of AutoCAD.

Topics

- Learn about the various 2D and 3D graphics display enhancements.
- Learn about the improvements for supporting high-resolution (4K) monitors.
- Learn about the all-new 3D graphics system that is being developed for AutoCAD and for which a technical preview is provided.
- Learn about the enhancements for a better touch experience in AutoCAD using a touch-enabled screen.

Who it’s for

- Engineers
- Designers

Prerequisites

- Autodesk Account
- Autodesk AutoCAD

Capabilities

- Mechanical Drafting
Learning how the AutoCAD user interface has evolved to increase efficiency and improve the user experience.

**Topics**
- Learn about the redesign of the Start window.
- Display multiple drawings as separate floating windows.
- Learn about the improvements to the dark theme.
- Learn about the enhancements to the basic layout and features of the AutoCAD software’s user interface.
- Learn about enhancements to the software while selecting objects in the drawing window.
- Learn about the preview enhancements to various commands in the AutoCAD software.
- Use the various tabs of the Blocks palette to insert blocks into the current drawing.
- Add multiple dimensions using the DIM command and add Center marks/centerlines to objects.
- Learn about the improvements for supporting high-resolution (4K) monitors.
- Learn about the enhancements for a better touch experience in AutoCAD using a touch-enabled screen.

**Who it’s for**
- Engineers
- Designers

**Prerequisites**
- Autodesk Account
- Autodesk AutoCAD

**Capabilities**
- Mechanical Drafting
AutoCAD Performance Enhancements

Understand what performance enhancements you will benefit from by updating to a newer version of AutoCAD.

Topics

- Set the various security options to protect against malicious executable files.
- Learn about performance enhancements to the software for better efficiency and enhanced display quality.
- Learn about the enhancements to the software while selecting objects in the drawing window.
- Learn about the preview enhancements to various commands in the AutoCAD software.
- Create named views and insert them as viewports.
- Add multiple dimensions using the DIM command and add center marks/centerlines to objects.
- Learn about the enhancements for a better touch experience in AutoCAD using a touch-enabled screen.

Who it’s for

- Engineers
- Designers

Prerequisites

- Autodesk Account
- Autodesk AutoCAD

Capabilities

- Mechanical Drafting