Autodesk Certified Professional in BIM Management for Building Design

Exam objectives

Target audience

The Autodesk Certified Professional (ACP) certification is designed for candidates who have a diverse understanding of BIM project planning, workflows, and delivery tools. Candidates typically have 4 or more years of professional BIM administrative experience, with a recommended 2,000 hours or more of Autodesk software experience, on a variety of project typologies which include multidisciplinary project design, management, and collaboration; quality assurance; and toolset expertise.

Candidates who obtain this certification must have strong BIM management skills with the ability to assess and train staff, as well as ensure the quality output of project deliverables. The successful candidate must be self-motivated, detail-oriented, and possess the desire to continually research and evaluate emerging technologies. Earning this certification can help differentiate candidates in the job market by validating their skills in BIM management by demonstrating their knowledge in associated workflows, processes, and project objectives.

Prerequisite skills

It's expected that candidates will already know how to:

- Use Autodesk AEC authoring tools.
- Manage access and permissions in Docs and have familiarity with Project Administration roles within Autodesk Construction Cloud
- Conduct model coordination and clash detection (ACC, Navisworks, etc.)
- Organize files and align documentation with standards and client requirements.
- Work with point clouds.
- Create and enforce a BIM Execution Plan.

- Demonstrate basic knowledge of national and international BIM standards (e.g. ISO 19650 standards and their use in BIM projects.)
- Assess team capabilities and building curricula to support user knowledge and skills.
- Evaluate technology (e.g. add-ins, hardware, and software, AI tools).
- Monitor and address model health issues.

Exam format

You won't have access to the software during the exam, as all questions are in a selected response format and are designed to be answered without the software user interface. Learn more about our exam format and question types in our Autodesk Certification FAQs.

Exam outline

Here are some topics and software features that may be covered in the exam. This table lists the main content domains and their weightings, followed by the complete exam content outline.

Exam domain	% of exam
Corporate standards and documentation	16%
Project needs assessment	28%
Collaboration process	36%
Data management	20%

1. Corporate standards and documentation

1.1. Establish BIM standards to align with organizational requirements

1.1.a Create model health thresholds

1.1.b Research, interpret, and apply industry data standards

1.2. Create project and content templates

1.2.a Create ACC project template

1.2.b Create multidisciplinary model templates

1.2.c Customize content creation template

1.2.d Support graphic standards via authoring tools (e.g., create view templates, customize annotations)

1.3. Develop BIM Execution Plan (BEP) templates

1.3.a Establish risk management system template

1.3.b Define mobilization plan templates

1.3.c Establish information delivery plan templates (e.g., TIDP, MIDP, AIA, or ConsensusDocs)

1.3.d Define project team roles and responsibilities

1.4. Evaluate digital tools that improve the consistency and efficiency of deliverables

1.4.a Establish a standard process for evaluating tools

1.4.b Evaluate and build a business case

1.5. Document best practices at the corporate level

1.5.a Define the QA/QC process for milestone review

1.5.b Review BIM standards

1.5.c Perform post-project evaluation

1.6. Develop training and learning paths

1.6.a Aggregate and evaluate current staff competencies against requirements

1.6.b Create training and provide resources to support career pathways

2. Project needs assessment

2.1. Analyze project requirements

2.1.a Determine clients' BIM requirements

i. May include identifying expectations, milestones, and deliverables, and assessing BIM goals and uses.

2.1.b Strategize ecosystem of tools for project execution

2.1.c Assess each task team capability and capacity and determine training requirements

2.2. Develop and implement project-specific BIM Execution Plan (BEP)

2.2.a Establish BIM goals and uses (e.g., define and support project-specific templates and content, establish the mobilization plan, etc.)

2.2.b Establish the delivery team's risk management system (e.g., quality control procedures, access control, model use limitations, communication breakdown)

2.2.c Establish information delivery plans

2.2.d Distribute BIM Execution Plan (BEP)

i. May include confirming the delivery team's BEP and implementing custom project conditions to

include in the BEP.

2.2.e Establish level of development (LOD) or Level of Information Need

2.3 Initialize project setup

2.3.a Establish project datums (e.g., Shared Coordinates, Levels, Grids)

2.3.b Assemble interdependent models

2.3.c Implement project-specific BIM processes

i. May include Shared Parameters, Worksets, Phases, ACC folders and permissions, and model coordination workflow

2.3.d Initialize or participate in internal and external project kickoff meetings

2.4 Implement quality control procedures

2.4.a Analyze project models for performance and model health and identify areas of improvement

2.4.b Check model information for completeness and compliance with specified requirements according to project standards

3. Collaboration process

3.1. Manage Common Data Environment (CDE) process

3.1.a Share BIM data files and models with third parties

3.1.b Manage data security

3.1.c Implement issue tracking

3.2. Coordinate and maintain geolocation

3.2.a Extend coordinates across multidisciplinary project models

3.2.b Implement a building location change using shared coordinates

3.2.c Reconcile geolocation issues (e.g., resolving differences in project units, addressing unintentional changes, etc.)

3.3. Manage 3D coordination

3.3.a Manage clash detection processes using model coordination tools

3.3.b Set up focused clash-detection reports and analytics in line with the clash matrix

3.3.c Allocate resolution responsibilities

3.4. Manage 3D models

3.4.a Assemble multi-building and/or multidisciplinary model scenarios

3.4.b Map phases of multi-disciplinary linked models

3.4.c Implement stakeholders' shared parameters (e.g., Parameter Service)

3.5. Review consultant and/or subcontractor BIM deliverables

3.5.a Validate QA standards and LOD/Level of Information Need requirements

3.5.b Evaluate received geometry and content

3.5.c Mandate standards compliance

4. Data management

4.1. Manage model creation according to project standards

4.1.a Ensure naming and numbering compliance (e.g., ISO 19650, client/company standards)

4.1.b Control output visibility (e.g., templates, filters, overrides)

4.2. Audit and resolve model issues

4.2.a Educate the team in response to model issues (e.g., warnings, journal files, and subdivision strategy)

4.2.b Troubleshoot project files

i. May include Revit journal file, review warnings, rollback file versions, fix corrupt families, manage supporting files, visibility graphics, and external references and links management

4.2.c Periodically review internal models for compliance with project data structure and overall health

i. May include workset strategy, browser organization, and layer management

4.2.d Check and validate compliance with project or industry standards

4.3. Conduct project closeout

4.3.a Archive project data

4.3.b Facilitate data handover as per project requirements