Autodesk® Revit® Architecture Certification Preparation

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AB3585 Autodesk® Certification signifies your experience and expertise to employers and clients around the world and, as such, is a very powerful asset for design professionals. Autodesk highly recommends that you structure your examination preparation for success. This means scheduling time to prepare, reviewing the Exam Guide, using Autodesk Official Certification Courseware, taking an Application Proficiency or Assessment Exam, and using a variety of resources to prepare for your certification. Equally as important, actual hands-on experience is recommended. In this class, you will review this process, experience questions similar to those in the exam, and learn about the materials available to you to be successful in Revit Architecture Certification.

Learning Objectives

At the end of this class, you will be able to:

- Prepare for success in Revit Architecture Certification by reviewing the certification preparation roadmap
- Map learning objectives to study materials
- Practice questions similar to those in the exam
- Use our tips and tricks to prepare for the exam

About the Speakers

John has been a member of the AEC Education team for the past six years and now serves as a manager of the Education frontline technical team to inspire the next generation of students to imagine, design, and create a better world. He has 25 years of industry experience, and is a registered architect in Ohio. John has trained and consulted hundreds of students, faculty, architects, and engineers on Autodesk® design software. He has a Bachelor of Science degree in architecture from The Ohio State University.

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Glenn is a member of the AEC Education team, working with faculty and students to inspire the next generation to imagine, design, and create a better world. He has over 30 years of industry experience working at the intersection of AEC, education, and technology. Prior to joining Autodesk, Glenn taught at Stanford University, integrating BIM into the curriculum of the Architectural Design and Civil and Environmental Engineering programs and created the Autodesk BIM Curriculum for AEC. Glenn graduated from MIT with a focus on architecture and structural engineering, and then completed the M.S. degree program in construction management at Stanford University.

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Introduction

Autodesk® Certification is an industry recognized credential that can help you succeed in your design career—providing benefits to both you and your employer. Certification provides reliable validation of skills and knowledge and can lead to accelerated professional development, improved productivity, and enhanced credibility.

As Autodesk products users, we may not always have a well-rounded skill set when using Autodesk® Revit® Architecture on a daily basis. Most users agree that it would be helpful to assess knowledge and skills and Autodesk has responded.

As Autodesk users, we want to distinguish ourselves and highlight our knowledge, skills and abilities. Obtaining Autodesk Certification credentials allows you to validate your knowledge and skill in the use of Autodesk products.

With the competitive environment of today’s design industry only the best will truly stand out. The Autodesk Certification program enables experienced users to receive that special recognition for their knowledge of Autodesk Products.

In this certification prep guide, you will gain insight into the following:

- High Level Certification Summary
- About The Certified Professional Exam
- Professional Exam Objectives, Preparation, and Tips
- What Happens After Getting Certified?
- Appendix - Preparation Resources

If you believe in improving yourself and adding value to your current or future employer, then you have come to the right place.

Let’s get started!
High Level Certification Summary

Who Should Get Certified?

The Certified Professional credentials are for anyone seeking to validate their knowledge of Autodesk software. The design and visualization industries are competitive environments, where only the best stand out. Anyone who uses Autodesk software for professional reasons can benefit from the program by emphasizing their skills and knowledge with an official certification from Autodesk.

Where Do I Get Certified?

There are two primary places for becoming certified.

- On-site at Autodesk University 2012 if attending the conference
  (Exams on-site are only offered in English Language)
- Authorized Autodesk Training Center

Note: All examinations are computer-delivered in a proctored environment. Please refer to additional resource links at the end of this document for locations.

How much does the exam cost?

Autodesk University Conference Attendees    FREE
Professional Examination at ATC      $125 USD per attempt

Recommended Experience Level in Product for Certification

Professional Exam 400 hours

Do I Need To Renew My Certification?

To remain current in certification it will be necessary to take the certification exam for the latest release of product. If you are a Certified Professional on Autodesk Revit Architecture 2012 or earlier, you need only pass the Autodesk Revit Architecture 2013 Certified Professional exam.

Three Steps to Successful Certification

Assess Your Readiness  Study and Practice Your Skills  Take Exam
About The Certified Professional Exam

Overview

The Professional exam is a combination of knowledge and performance-based exam questions. The definition of the question types are listed below for reference and will be expanded upon in later sections under preparation. In addition, a comparison chart has been provided to indicate the key differences between last year’s and this year’s Certified Professional Exam.

### Knowledge-Based Questions (NEW in 2013)

New to the Certified Professional Exam this year is the inclusion of knowledge-based questions that were associated with the previous year’s Certified Associate Exam. Knowledge-based questions cover the use of tools, features, and common tasks and are assessed through multiple-choice, matching, and point-and-click question types.

### Performance-Based Questions

Each performance-based question requires you to use Autodesk® Revit® Architecture 2013 to create or modify a data file, and then type your answer into an input box. The answer you enter will either be a text entry or a numeric value. The majority of the questions for the 2013 exam are performance-based.

### Certified Professional Exam Comparison Chart (Items in BOLD are NEW in 2013)

<table>
<thead>
<tr>
<th></th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Questions</td>
<td>20</td>
<td>35</td>
</tr>
<tr>
<td>Types of Questions</td>
<td>Performance-based Only</td>
<td>Knowledge and Performance-based</td>
</tr>
<tr>
<td></td>
<td>(Hands-on in Application)</td>
<td>(Hands-on in Application)</td>
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<tr>
<td>Duration of Exam</td>
<td>90 minutes</td>
<td>120 minutes</td>
</tr>
<tr>
<td>Passing Score</td>
<td>80 %</td>
<td>80%</td>
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</table>
What Topics are Covered on the Certified Professional Exam?
The areas that you’ll be tested on in the Revit Architecture 2013 Certified Professional Exam are grouped into a series of topics and objectives that focus on specific skills.

<table>
<thead>
<tr>
<th>Topics</th>
<th>Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collaboration</td>
<td>• Copy and monitor elements in a linked file&lt;br&gt;• Use worksharing&lt;br&gt;• Import DWG files into Revit</td>
</tr>
<tr>
<td>Documentation</td>
<td>• Create and modify filled regions&lt;br&gt;• Place detail components and repeating details&lt;br&gt;• Tag elements (doors, windows, etc.) by category&lt;br&gt;• Use dimension strings&lt;br&gt;• Set the colors used in a color scheme legend</td>
</tr>
<tr>
<td>Elements</td>
<td>• Change elements within a curtain wall (grids, panels, mullions)&lt;br&gt;• Create compound walls&lt;br&gt;• Create a stacked wall&lt;br&gt;• Differentiate system and component families&lt;br&gt;• Create and modify family categories&lt;br&gt;• Create a new family type&lt;br&gt;• Modify an element's type parameters&lt;br&gt;• Use Revit family templates</td>
</tr>
<tr>
<td>Modeling</td>
<td>• Assess review warnings in Revit&lt;br&gt;• Create a building pad&lt;br&gt;• Define floors for a mass&lt;br&gt;• Create a stair with a landing&lt;br&gt;• Create elements such as a floors, ceilings, or roofs&lt;br&gt;• Generate a toposurface&lt;br&gt;• Model railings&lt;br&gt;• Work with phases&lt;br&gt;• Edit a model element's material (door, window, furniture)&lt;br&gt;• Change a generic floor/ceiling/roof to a specific type&lt;br&gt;• Attach walls to a roof or ceiling</td>
</tr>
<tr>
<td>Views</td>
<td>• Define element properties in a schedule&lt;br&gt;• Control visibility&lt;br&gt;• Use levels&lt;br&gt;• Create a duplicate view for a plan, section, elevation, drafting view, etc.&lt;br&gt;• Create and manage legends&lt;br&gt;• Manage view position on sheets&lt;br&gt;• Move the view title independently of the view&lt;br&gt;• Organize and sort items in a schedule</td>
</tr>
</tbody>
</table>
How Should I Prepare for the Exam?

Get familiar with Topics & Objectives

Anticipate what the Objectives are trying to Measure

Determine best method for Learning Objectives

Step 1: Assess the Topics and Objectives

Familiarize yourself with the exam topics and objectives and assess which areas to focus on to build your knowledge of the product and hands-on skills as you prepare for the exam.

Step 2: Anticipate the Types of Questions that may be Asked

Knowledge-based questions are asked in several formats:

- **Multiple choice** – select the single best answer.
- **Select all that apply** – select all options that apply from the list of potential responses.
- **Point and click** – pick the correct area of the supplied graphic.
- **Matching format** – match items in the list of answers in the left column to the appropriate question in the column on the right.

Performance-based questions require you to create or modify a data file, and then type your answer into an input box. To prepare for these questions, ask yourself:

- Is this a **broad** or **narrow** objective? Do you know of all the possible ways of achieving this objective, even if you don’t use them all personally yourself?
- Does this objective involve **creating** or **modifying** elements? Don’t assume that you will be starting from scratch in every case. Think about your likely workflows from both perspectives.

Step 3: Prioritize the Objectives and Plan Your Learning Path

The majority of the exam objectives are related to Modeling and Elements. Place emphasis on those first and work your way out from there. Identify the specific areas where it will be most beneficial to build up your skills, and plan a focused learning path.

Step 4: Practice by Doing!

Many of the questions on the certification exam require **doing and quantitatively** reporting on the results, so the more time you spend practicing in the product the better. The AOTG books cover the essential workflows and procedures, and include downloadable exercises that are straightforward and easy to repeat on your own. Use these guides to build up your skills before the exam. Hands-on knowledge is important here!

Step 5: Familiarize Yourself with User Interface and Keyboard Shortcuts

Knowing the interface well prior to the exam will pay off dividends. Create cheat sheets of the ribbon user interface, property palette, and keyboard shortcuts if that helps you in preparation. Don’t waste precious time searching the user interface for a command, which may cause you to leave some questions unanswered.
What Happens After Getting Certified?

Confidentiality  (Don’t discuss questions with others)

You should not discuss test questions or datasets with others. It is in violation of the conditions you accept in taking the exam and is grounds for removal of certification. It is in your best interest to ensure the exam process is fair for everyone and results perceived as valid.

Do NOT discuss exam questions or the datasets with others. Employers need to know that the certification follows the professional standards required for “high-stakes” exams. Promotions and employment might depend on certification.

Printing Your Test Score

You may print your test score as soon as you complete your exam if printers are available in the exam room. Otherwise, you may access your score after the exam by visiting https://autodesk.starttest.com/ and selecting the Tests and Score Reports link.

Certificate and Logos

How Do I Obtain My Certificate and Logo?

Login to https://autodesk.starttest.com/. After login, select the Certifications link, then select the Logos and Certificates link next to the exam version from the listing. Finally, select each item (certificate and logo) and manually download the asset for use.

2012 Shown for Illustration

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<tr>
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How Long Does Certification Last?

Certification validates your knowledge and skills using a specific release (year) of an Autodesk application. Although certification for a particular version of an application never expires, certification is not considered current unless you have passed the latest exam.
Renewing Your Certification

To recertify from Autodesk Revit Architecture 2013 Professional to Autodesk Revit Architecture 2014 Professional, you need only pass the Autodesk Revit Architecture 2014 Certified Professional exam.

Conclusion

Expect to get Certified!

Obtaining the Certified Associate or Professional credentials will allow you to validate your knowledge and skills in the use of Revit Architecture.

Once you’ve successfully completed the exam, remember to register yourself as a Certified User through the Autodesk Certified Users Search. You can access the search through the Autodesk Education community at www.autodesk.com/certification. You can find and contact Certified Users around the world, and employers can find those of you who are Autodesk Revit Architecture Certified Professionals.

I personally found the process insightful, challenging, and rewarding. I am a big fan of self-improvement. Investing in yourself and achieving accomplishments will take you far.

I wish you the best of luck in your endeavors!

When you know what you want, and you want it badly enough, you'll find a way to get it.

Jim Rohn
Appendix - Preparation Resources

AU Virtual Revit Architecture Certification Prep Video Series
by Glenn Katz and John Herridge of Autodesk

ED5580-V: Autodesk® Revit® Architecture Certification Preparation, Part 1
Topics Covered: Views and Modeling

ED5581-V: Autodesk® Revit® Architecture Certification Preparation, Part 2
Topics Covered: Elements, Documentation, and Collaboration

Revit Architecture Certification Prep Video Series by CADLearning
http://certificationprep.cadlearning.com/

AOTG Books

One of several Autodesk Official Training Guides for the Autodesk Revit Architecture 2013 Certification exams is the Autodesk Revit Architecture 2013 Essentials from Wiley Publishing. The authors are: Phil Read, Eddy Krygiel, and James Vandezande. This guide is available from booksellers and online booksellers worldwide.

Refer to the Certification Objectives and Chapter references listed in the Appendix. Find objectives quickly in the book by looking for the Certification Objective checkmark in the margins.

Additional Resources

Certification URL: http://www.autodesk.com/certification

Autodesk Certification: http://autodesk.com/starttest.com
  • Purchase Exams
  • Locate Certification Centers
  • Obtain Certificates & Logos

Certification Email: certification@autodesk.com

ATC Training http://www.autodesk.com/atc