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Welcome to the Revit Architecture 2008: Certified User Exam Preparation guide, a training course designed for use as preparation for Autodesk Certification. Certification Preparation guides are part of the Autodesk Official Certification Courseware (AOCC). This guide is designed to teach the knowledge and skills assessed on the Revit® Architecture 2008 Certified User examination, and can be used as a teaching tool for instructor-led courses as well as self-paced learning. In addition to the coursework, this manual encourages self-learning through the use of the Revit Architecture Help system.

This introduction covers the following topics:

- Autodesk Certification Overview
- Examination Sections and Objectives
- Prerequisites
- Using this Courseware
- CD contents
- Installing the exercise data files from the CD

This courseware is designed to be is complementary to the Autodesk Official Training Courseware (AOTC) taught by Autodesk Authorized Training Centers.

Every day, thousands of our customers are taught how to realize their ideas, faster, with Autodesk® software. You can perform smarter and better with Autodesk software products when you turn to an Authorized Training Center. An ATC® is your best source for Autodesk-authorized classes, tailored to meet the needs and challenges facing today’s design professionals.

For more information on Autodesk courseware and training programs please visit www.autodesk.com under Services and Support.

Autodesk Certification Overview

In any career, design plays an important part. Whatever your career path, proven Autodesk software expertise will keep you ahead of the curve, and help you develop a solid competitive advantage in today’s complex marketplace.

Autodesk certifications are appreciable, industry-recognized credentials that can help you succeed in your design career—providing benefits to both you and your employer. Autodesk certifications are a reliable validation of your skills and knowledge, and can lead to accelerated professional development, improved productivity, and enhanced credibility in your field. Each Autodesk certification level, Autodesk Certified User or Autodesk Certified Expert, signifies the experience and expertise of design professionals around the world.
Autodesk offers two levels of certification, Certified User and Certified Expert, covering many Autodesk applications. Certified Users are assessed on basic features and functions of an application, as well as specific skills that ensure a base level proficiency with the application. Certified Experts are assessed on knowledge of more advanced features and functions of an application, in addition to specific skills that ensure proficiency applying these advanced features and functions.

Autodesk certification is granted when you successfully pass a specific certification examination. Depending upon the application, the program allows you to obtain the Certified User or the Certified Expert credential. Obtaining the Certified User credential is a prerequisite to obtaining Certified Expert status.

Revit Architecture 2008 Certified User Overview

The Revit Architecture 2008 Certified User credential is designed to assess your knowledge of Revit Architecture 2008. The questions you answer during the exam assess a working knowledge of the basic features and functions of the application, as well as specific skills that are appropriate for ensuring a base level of proficiency in the application. Earning Autodesk Certified User status qualifies you as having demonstrated the requisite knowledge and skills to accomplish fundamental application tasks.

Examination Overview

Autodesk certification exams are performance based exams. These examinations are comprised of approximately 35 questions. The test items will require you to use the Revit Architecture 2008 application itself to perform a task, and then answer questions about the task.

Performance based testing is defined as testing by doing. That means that rather than answer questions about how you might accomplish a task, you actually perform the task. Performance based testing is widely accepted as a better way of insuring you have the skills needed for the application, rather than just recalling information.

Examination Sections and Objectives

The Revit Architecture 2008 Certified User examination includes 4 sections and 35 questions. Each section covers high-level objectives and specific performance tasks.

Section 1: Starting a Revit Architecture Project

Performance Tasks
- Use AutoCAD® data to set up a Revit Architecture project.
- Create and manage drawing sheets.

Section 2: Leveraging AutoCAD Data

Performance Tasks
- Import and link AutoCAD vector data to a Revit Architecture project.
- Use imported AutoCAD vector data by tracing over it to create a Revit Architecture building model.
- Add details to your building model by using imported CAD vector data.
- Import, edit, and export AutoCAD objects.
Section 3: Completing the Move to Revit Architecture

Performance Tasks
- Create and load Revit Architecture families using AutoCAD geometry.
- Complete the migration from AutoCAD to Revit Architecture by creating detail libraries of families from AutoCAD drawings.

Section 4: Revit Architecture Basics

Performance Tasks
- Describe the Revit Architecture 2008 user interface.
- Work with different types of Revit Architecture 2008 elements and families.

Section 5: Starting a Design

Performance Tasks
- Create a floor plan view and place building elements in it.
- Create and modify levels in a building model.
- Work with grids and create column grids.

Section 6: The Basics of the Building Model

Performance Tasks
- Add and modify walls and create new wall types from existing wall types.
- Use editing commands to add components to a building model.
- Add and modify doors in a building model.
- Add and modify windows in a building model.

Section 7: Loading Additional Building Components

Performance Tasks
- Add and modify component families in a project.

Section 8: Viewing the Building Model

Performance Tasks
- Explore the different views displayed in the Project Browser and change their properties.
- Control the visibility and appearance of elements in different views.
- Create and modify section and elevation views.
- Create and modify 3D views.
Section 9: Using Dimensions and Constraints

Performance Tasks
- Place dimensions and tags in a building model.
- Describe constraint types and apply constraints in a building model.

Section 10: Developing the Building Model

Performance Tasks
- Create and modify floors.
- Add and modify ceilings in a building model.
- Add and modify roofs in a building model.
- Add curtain walls in a building model.
- Create stairs, add railings to the stairs, and change the properties of stairs and railings.

Section 11: Detailing and Drafting

Performance Tasks
- Create a callout view.
- Create and use detail views for displaying the construction details of a building model.
- Work with drafting views.

Section 12: Construction Documentation

Performance Tasks
- Create and modify a schedule.

Section 13: Presenting the Building Model

Performance Tasks
- Create and modify drawing sheets and print drawing sheets and views.
- Use sun and shadow settings in a building model.

Prerequisites

To successfully complete the course, the student should have experience using Revit Architecture 2008 including opening drawings, accessing commands, and using commands. This course is not designed for students who have never used Revit Architecture, rather is meant to help students broaden their skills and focus their learning on specific objectives tested in the Revit Architecture 2008 User certification exam.

Students should also have a working knowledge of Microsoft® Windows®98, Windows® NT 4.0 / Windows® 2000, or Microsoft® Windows® XP.
Using this Guide

This preparation manual includes an overview of the steps required to perform the tasks assessed on the certification examination. Many sections also include exercises that will give you practice in performing critical application tasks. The manual is divided into sections; each corresponding to a section of the certification examination. Each section contains:

- **Objectives and Performance Tasks** – A listing of the skill objectives and performance tasks covered on the certification examination. Review all objectives in each section as preparation before taking the examination.

- **Skill Overview** – An introduction to the skill or task, with information about successfully completing each performance task.

- **Lessons and Exercises** – Practical, real-world examples for you to practice using the functionality you have just learned. Each exercise contains step-by-step procedures and graphics to help you complete the exercise successfully.

CD Contents

The CD attached to the back cover of this book contains all the data and drawings you need to complete the exercises in this course.

Installing the Exercise Data Files from the CD

To install the data files for the exercises:

1. Insert the courseware CD.
2. The license agreement for the CD content will appear.
3. If you accept the license agreement, navigate to the CD using Windows®.
4. Copy the contents of the CD folder `exercise files\` to a working directory of your choice. This should be a directory for which you have read\write privileges for your user account.

After you install the data from the CD, this folder contains all the files necessary to complete each exercise in this course.

Notes, Tips, and Warnings

Throughout this courseware, notes, tips, and warnings are called out for special attention.

- **Notes**
  
  Notes contain guidelines, constraints, and other explanatory information.

- **Tips**
  
  Tips provide information to enhance your productivity.

- **Warnings**
  
  Warnings provide information about actions that might result in the loss of data, system failures, or other serious consequences.
Feedback

We always welcome feedback on Autodesk Official Certification Courseware (AOCC). After completing this course, if you have suggestions for improvements or if you want to report an error in the book or on the CD, please send your comments to AOCC.feedback@autodesk.com.

If you would like to comment on the Autodesk Certification Program or an Autodesk Certification exam, send comments to certification@autodesk.com.

More Information about Certification

If you need additional information about Autodesk certification, visit www.autodesk.com/certification.
Autodesk Revit is building information modelling software for architects, landscape architects, structural engineers, mechanical, electrical, and plumbing (MEP) engineers, designers and contractors. The original software was developed by Charles River Software, founded in 1997, renamed Revit Technology Corporation in 2000, and acquired by Autodesk in 2002. The software allows users to design a building and structure and its components in 3D, annotate the model with 2D drafting elements, and access