TOSA

Your skills. Your advantage.

Tosa for Autodesk Revit Architecture®

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Introduction to the Tosa® Skills Framework

For Tosa® Assessment and Certification

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Tosa® (Test on Software Applications)

Tosa® assessments and certifications are designed to determine a candidate's proficiency level by evaluating their skills in office software and digital tools commonly used in a professional or educational environment.

These tests are specifically developed to validate the professional competencies of candidates looking to enhance their employability (employees, students, job seekers, and individuals undergoing career transitions).

Tosa® assessments and certifications are adaptive tests, developed using scientific methodologies. The scoring is based on Item Response Theory (IRT). The test algorithm adapts to each candidate's response in real time, adjusting the difficulty level of subsequent questions until it precisely determines the candidate's skill level by calculating the upper limit of their competencies. As a result, the tests provide a detailed and unique diagnosis of each candidate's abilities.

The rigor and reliability of Tosa® tests stem from the combination of a mathematical model for analyzing question difficulty and the relevance of the questions selected for each candidate (IRT).

Tosa® Skills Framework Objective

This skills framework outlines all the skills assessed within the domains and sub-domains of the Tosa® assessment and certification tests for Revit Architecture®.

Tosa® assessment and certification solutions are designed to determine learners' proficiency levels using a single scoring scale—ranging from 0 to 1000 for certification—and divided into five levels, from "Beginner" to "Expert," for the assessment.

The purpose of this framework is to specify the technical knowledge expected at each level and within each of the four main skill categories of Revit Architecture®. It is intended to help identify the most appropriate teaching or training programs to match a learner's target score.

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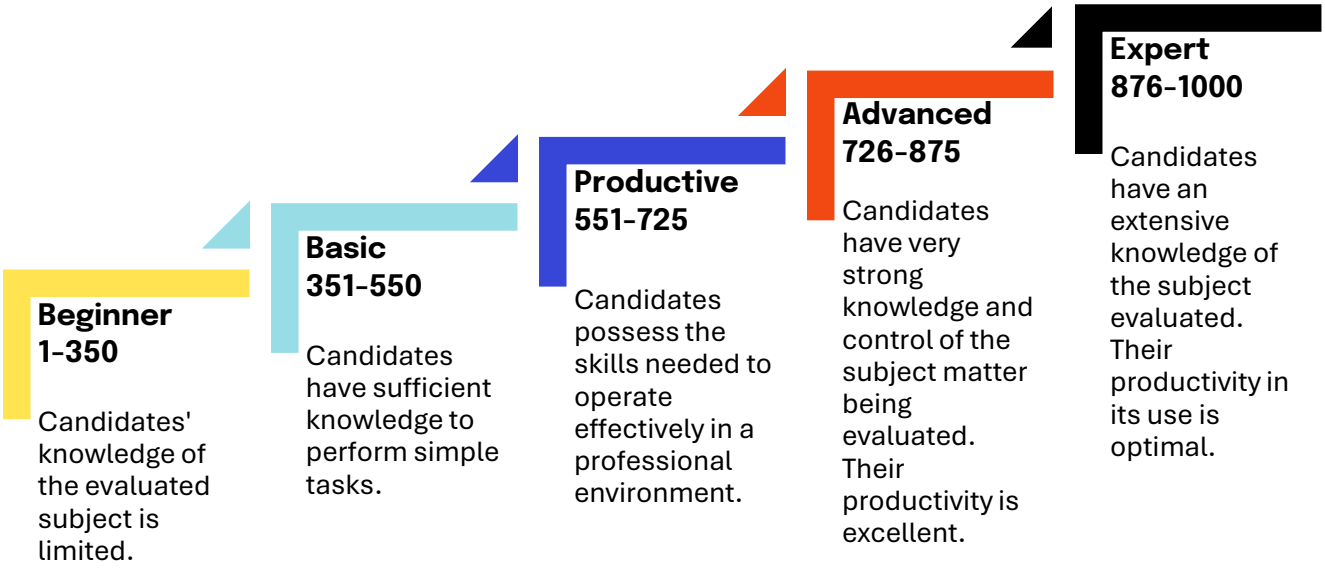
Unique Tosa® Scoring

The Tosa® assessments and certifications are based on a unique score, divided into five levels.

- Ranging from 1 to 1000 for the certification.
- Divided into five levels, from Beginner to Expert, for the assessment.



Certification failed	Certification failed	Certification earned	Certification earned	Certification earned
Certificate of completion issued	Certificate of completion issued	Diploma & Credly digital badge issued	Diploma & Credly digital badge issued	Diploma & Credly digital badge issued

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About the Tosa for Autodesk Revit Architecture® certification

The Tosa for Autodesk Revit Architecture® Certification relies on a database of more than 150 questions. It is composed of 35 questions from the question database and lasts for 1 hour. The algorithm adapts to each of the candidate's answers to adjust the difficulty level of the questions until reaching the candidate's skill limit. This ensures a precise and accurate result.

Since the test is adaptive, the series of questions that a candidate gets is unique for each test. This algorithm allows for a more accurate evaluation of the candidate's level. It also limits cheating and the memorization of questions on different passages.

Our platform allows individuals to take the certification in a classroom setting, an approved testing center, or remotely via our integrated asynchronous online proctoring solutions.

Our remote proctoring solutions provide added flexibility for both the administrator and the candidate, allowing the certification exam to be taken anywhere, at any time. The candidate only needs an internet connection and a computer equipped with a working webcam and microphone.

Candidates receive a numeric score out of 1000 points. This score corresponds to one of five proficiency levels. Candidates who score between 1 and 550 points do not earn the certification. They receive a certificate of completion in lieu of a diploma. Candidates who score 551 points or above earn the certification and will receive a diploma by email within five business days. If a candidate scores 551 points or above, they will also be eligible to receive a digital Credly badge.

There are no prerequisites to be eligible to take the exam, but to ensure a candidate is well prepared on exam day, we suggest they:

- Take at least one Tosa for Autodesk Revit Architecture® adaptive assessment to estimate their level and get familiar with the test format
- Use the free practice tests on our website for training
- Follow an e-learning or training course (average duration per level is between 10 and 15 hours per certification, so around 150 hours total)

Tosa certification diplomas are valid for three years from the date of issue. This three-year period has been set to ensure that our certifications are consistently accurate and relevant, taking into account software version updates as well as the natural evolution of a candidate's skills over time. Limiting the certification period also reflects the need for life-long learning and continual professional development.

Tosa certifications can be retaken when they expire. Earners willing to improve their score and proficiency level can retake the exam at any time.

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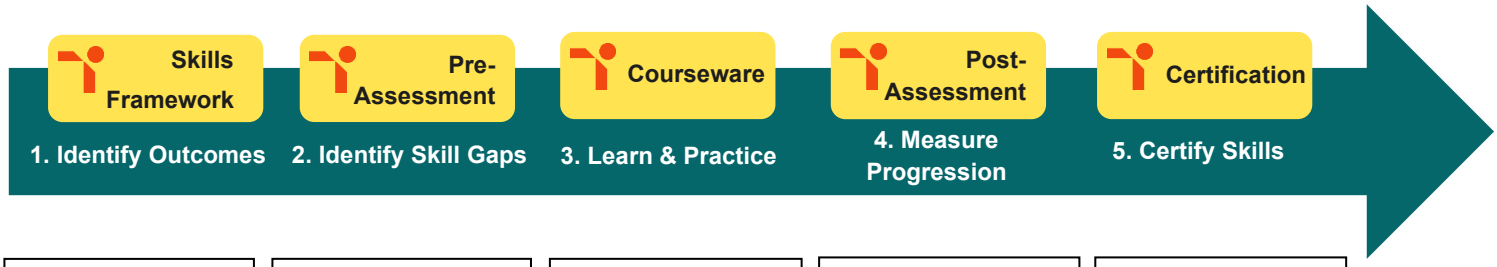
Isograd Learning Platform

The Isograd Learning Platform is a multifaceted and adaptable courseware solution designed to help learners prepare for Tosa certification exams. It offers personalized, self-paced, and fully interactive learning experiences, equipping candidates with the essential digital skills that employers seek. These skills span a wide and varied range, applicable to learners just starting their career journey to those wishing to advance on their path.

The browser-based platform supports all learning styles with a wide array of features, including in-application exercises. These in-application capabilities allow learners to experience real-world examples of specific tasks within a given software environment. The platform includes inclusive learning resources, along with extension activities and project-based learning challenges that foster creativity and critical thinking.

All course content on the Isograd Learning Platform is aligned to a Tosa skills framework, which is the foundation of any Tosa certification exam. By aligning course content to a skills framework, learners will be prepared to take the exam once they complete the courseware.



1. Identify Outcomes	2. Identify Skill Gaps	3. Learn & Practice	4. Measure Progression	5. Certify Skills
Using a Tosa® skills framework, instructors integrate Tosa® certifications into their existing content or curriculum and set define outcomes.	Students begin with a formative pre-course assessment to identify their current skills level. Instructors gather data and adjust lesson plans based on students' results.	Instructors match courseware in the Isograd Learning Platform to student's proficiency levels and intended course objectives.	Once the courseware is completed, students take a summative assessment to verify their skills match the intended proficiency level. If skill gaps still exist, instructors can assign additional course content.	When instructors are satisfied with students' progress, certification exams are given.

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Tosa for Revit Architecture® Level Descriptions

At each level, candidates can:

Beginner

- Understand the Revit interface and basic concepts of BIM
- Open and prepare a working file
- Identify and modify simple elements (walls, roofs, or surfaces)
- Recognize Revit family file formats and basic project organization

Basic

- Create and modify basic architectural elements (walls, doors, windows, roofs)
- Manage visibility, graphic styles, and simple annotations
- Import, export, and print project views
- Use basic modeling tools such as curtain walls and topography
- Apply and manage project templates and standards

Productive

- Create and edit parametric families and construction plans
- Manage visibility, rendering, and view organization efficiently
- Use and configure collaboration tools (links, IFC, templates)
- Create realistic renderings and detailed documentation
- Optimize the use of Revit tools for design productivity

Advanced

- Develop complex 3D models using advanced forms and parameters
- Automate documentation and customize labeling or annotation standards
- Manage interoperability and data exchange in BIM workflows
- Use advanced visualization tools and create complete layouts
- Apply analytical tools (energy, quantities, design options) to support decision-making

Expert

- Define BIM standards, workflows, and modeling methodologies
- Lead large-scale collaborative BIM projects and coordinate disciplines
- Customize Revit through parameters, templates, and shared data management
- Create complex parametric geometries and advanced families
- Train and mentor others in advanced Revit and BIM practices

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Business Applications

Attaining the Beginner score defines little or limited knowledge of the Revit Architecture® application, including its basic tools, interface, and BIM concepts, highlighting the inability to use the software effectively in a professional environment.	*For a junior BIM technician or drafting assistant, skills at this level enable a candidate to model basic architectural elements, create and save Revit files, navigate views, and produce simple floorplans, elevations, and 3D views.*	*For a Revit drafter, design assistant, or junior architectural technician, these skills enable a candidate to develop coordinated models, refine components, apply materials, annotations, and view templates, and prepare documentation suitable for design reviews or collaboration.*	*For an architectural designer, BIM coordinator, or project architect, these skills enable a candidate to manage complex building models, apply consistent standards, use worksharing and linked files, and export accurate documentation for construction workflows.*	*For a senior architect, BIM manager, or project lead, these skills enable a candidate to oversee multidisciplinary Revit projects, customize families and templates, automate tasks, ensure BIM standards compliance, and manage data integration across the design lifecycle.*

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Domain 1: Fundamentals

Sub-domain 1: Interface and workspace management

Covers: Understanding the Revit interface, navigating the workspace, and managing project settings.

Beginner

- Understand the Revit family file format
- Prepare the working file

Basic

- Create a new project
- Locate function groups

Productive

- Configure temporary dimensions
- Optimize drawing actions
- Manage visibility settings
- Place floor plan views on a sheet for printing

Advanced

- Save a selection of objects

Expert

- Understand BIM principles
- Create and collaborate

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Sub-domain 2: Basic modeling and view manipulation

Covers: Creating and modifying basic architectural elements such as walls, doors, and windows, as well as managing views used to visualize and organize the model. This includes configuring views, schedules, and legends to support clear project display and coordination.

Beginner

- Extend elements
- Identify a roof surface

Basic

- Verify the correct elements when creating an architectural wall
- Select all instances, elements, and objects
- Create using the Align tool
- Attach walls to roofs
- Reverse the drawing axis
- Create and modify architectural elements
- Understand object snaps
- Apply wall layers

Productive

- Draw elements
- Split walls
- Create a distinct face on a floor
- Use and manage the Paint tool
- Understand families
- Understand the EQ (equal) constraint function
- Create openings by shaft
- Manipulate schedule fields
- Manage element visibility

Advanced

- Create a wall type
- Attach walls
- Use opening tools
- View and manage schedules

Expert

- Sketch
- Modify objects
- Control display settings

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Domain 2: Mastering Modeling

Sub-domain 1: Parametric families and components creation

Covers: Creating, editing, and managing parametric families and component parameters to support flexible, reusable, and data-rich project elements.

Beginner

- N/A

Basic

- N/A

Productive

- Create and edit families
- Identify architectural elements by their family
- Add a parameter to a label

Advanced

- Create a yes/no parameter

Expert

- Create a family
- Create and use parameters
- Create and use shared parameters

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Sub-domain 2: Architectural modeling system

Covers: Creating and modifying advanced architectural systems—including curtain walls, roofs, stairs, and complex forms—using solids, reference geometry, and in-place elements.

Beginner

- N/A

Basic

- Create and manipulate curtain walls

Productive

- Create curtain walls
- Create void forms

Advanced

- Create reference lines
- Create solids by path extrusion
- Create solids by revolution
- Create a form by lofting (blend)
- Create stairs

Expert

- Create complex geometries
- Remodel a roof
- Master the use of reference planes

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Sub-domain 3: Topography and model organization

Covers: Creating and editing site topography, surface elements, and construction plans while organizing and structuring the model for effective project coordination.

Beginner

- N/A

Basic

- N/A

Productive

- Create a topographic surface
- Correct a surface
- Create construction plans

Advanced

- N/A

Expert

- Create and edit topography

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Domain 3: Project documentation

Sub-domain 1: View creation and display management

Covers: Creating and managing project views—such as detail views, sections, elevations, perspectives, and presentation sheets—and configuring view settings including camera placement and rendering regions.

Beginner

- Create detail hatches
- Manipulate detail elements
- Create and edit surfaces and rooms

Basic

- Calculate a rendering region
- Manage visibility and graphic settings

Productive

- Override the graphics of wall sections
- Configure cameras

Advanced

- Create a layout

Expert

- Create a materials library

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Sub-domain 2: Annotations and graphic styles management

Covers: Creating and using annotations, and managing graphic and visual styles, including lighting settings and the production of photo-realistic renderings.

Beginner

- N/A

Basic

- Understand tags
- Change the position of tags
- Modify a tag instance
- Understand dimension type properties

Productive

- Create a chain of dimensions along an entire wall
- Adjust ambient lighting
- Save photo-realistic renderings

Advanced

- Convert temporary dimensions into permanent ones
- Manipulate tag labels

Expert

- Manage annotation tags
- Create and edit dimensions

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Domain 4: Communication and collaboration

Sub-domain 1: Export and import in various formats

Covers: Exchanging project data by exporting, importing, linking, and attaching files across multiple formats such as RVT, DWG, and IFC. Includes managing interoperability settings, applying project standards when transferring data, and supporting effective collaboration through consistent and accurate file exchange.

Beginner

- N/A

Basic

- Understand interoperability
- Export floor plan views
- Use the Area tool
- Calculate areas
- Place floor plan views on a sheet for printing

Productive

- Create a projet template
- Edit templates
- Understand the IFC format
- Insert and import files
- Import sheets
- Understand area plans
- Understand color legends
- Use the Demolish tool

Advanced

- Master the steps for creating a legend
- Master the IFC format

Expert

- Add a time dimension to project elements

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