

Robot Structural Analysis Professional – Steel Module

Autodesk Robot Structural Analysis Professional software provides structural engineers with advanced building simulation and analysis capabilities for large, complex structures. The software offers a smooth workflow, enabling engineers to more quickly perform simulation and analysis of a variety of structures.

After completing this course, students will be able to: Model steel members and transfer models from Revit Structure. Add loads, load cases, load combinations, end releases and boundary conditions. Run analysis, review force diagrams, design with the steel module.

Who should attend?

This is a beginner-level course for structural engineers. New Autodesk Robot Structural Analysis Professional users or other Autodesk software users who want to learn essential elements of the software.

Prerequisites

Students should possess an understanding of Structural Steel Systems. There are no required prerequisites for this course. However, to get the most from this course, students should also have structural design and drafting experience and be comfortable working in a Microsoft Windows (7, 8.1 or 10) environment.

Questions?

Please call us at 800-336-3375 and ask to speak to our Training Coordinator.

Note:

To receive your certification of completion from Autodesk for this course you must complete the online evaluation form at <http://atcevaluation.autodesk.com/>

Course Outline

Working with Robot Structural Analysis Pro

- Introduction to Robot and BIM Implementation
- Overview of User Interface
- Manipulating Program Preferences
- Creating a New Project

Adding Geometry

- Importing Revit Model
- Adding Columns
- Adding Beams
- Adding Bracing
- Adding Floors

Robot Structural Analysis Professional – Steel Module [CONTINUED]

Loading

- Defining Load Cases
- Defining Load Combinations
- Applying Loads, Boundary Conditions, and Releases

Analysis

- Running Analysis
- Exploring Results
- Output Options

Design

- Steel Member Design
- Updating Revit Model