

Robot Structural Analysis Professional – Concrete 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 Concrete members and transfer models from Revit Structure; add loads, load cases, load combinations, end releases and boundary conditions; and run analysis, review force diagrams, and design with the concrete module.

Who should attend?

This is a beginner-level course for structural engineers, including 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 Concrete 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 environment.

Questions?

Please call us at 800-336-3375.

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 Models
- Adding Columns
- Adding Beams
- Adding Foundations
- Adding Walls
- Adding Floors

Loading

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

Analysis

- Running Analysis
- Exploring Results
- Output Options

Design

- Concrete Design
- Update Revit Models