



*Training Course:
Structural Analysis and Design using STAAD.Pro*

9 - 13 August 2026

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Structural Analysis and Design using STAAD.Pro

Training Course code: EN6069 From: 9 - 13 August 2026 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 4410 € Euro

Introduction

Structural analysis and design are essential for ensuring the safety, stability, and efficiency of engineering structures. STAAD.Pro is a widely used structural analysis and design software that enables engineers to model, analyze, and design structures under various loading conditions in accordance with international design codes.

This program, designed by Global Horizon Training Center, equips participants with practical skills and technical knowledge to perform structural analysis and design using STAAD.Pro, covering modeling, load application, analysis, and code-based design.

Course Objectives

By the end of this program, participants will be able to:

- Understand the fundamentals of structural analysis and design
- Develop structural models using STAAD.Pro
- Apply different types of loads and load combinations
- Perform structural analysis and interpret results
- Design structural elements according to international codes
- Analyze steel and concrete structures
- Generate reports and design documentation
- Improve design accuracy and efficiency

Target Audience

This program is designed for:

- Civil and Structural Engineers
- Design Engineers and Consultants
- Project and Site Engineers
- Engineering Graduates and Students
- Professionals involved in structural design and analysis
- Individuals seeking hands-on experience with STAAD.Pro

Outline

Day 1: Introduction to STAAD.Pro and Structural Modeling

- Overview of structural analysis concepts
- Introduction to STAAD.Pro interface and workflow
- Creating structural models nodes, members
- Defining materials and properties
- Model verification and visualization

Day 2: Load Application and Structural Analysis

- Types of loads dead, live, wind, seismic
- Load cases and load combinations
- Applying loads in STAAD.Pro
- Running analysis and understanding output
- Interpreting reactions and internal forces

Day 3: Design of Steel Structures

- Steel design principles and codes
- Member design beams, columns
- Design parameters and constraints
- Code checks and optimization
- Reviewing design results

Day 4: Design of Concrete Structures

- Reinforced concrete design fundamentals
- Beam and column design
- Slab design concepts
- Design codes and parameters
- Detailing considerations

Day 5: Advanced Applications and Project Work

- Advanced modeling techniques
- Dynamic and non-linear analysis basics
- Structural optimization
- Generating reports and documentation
- Case studies and real-world applications

Registration form on the Training Course: Structural Analysis and Design using STAAD.Pro

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