



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

*21 - 25 March 2027  
Dubai (UAE)*

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

Training Course code: EN6069 From: 21 - 25 March 2027 Venue: Dubai (UAE) - Training Course Fees: 5830 € 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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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Company Information

Company Name: .....  
 Address: .....  
 City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
- ☐ Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
or training@gh4t.com

Complete & return the  
booking form with cheque  
to: Global Horizon  
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