MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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INTRODUCTION TO STAAD PRO TRAINING

"Analyze, Design, and Optimize Structures with Confidence Using STAAD Pro."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

Introduction

Structural engineering projects demand precision, efficiency, and reliability in design and analysis. STAAD Pro is one of the most widely used structural analysis and design software in the civil engineering industry. It allows engineers to model, analyze, and design various types of structures, including buildings, bridges, towers, and industrial facilities, using advanced computational tools and international design codes.

The Introduction to STAAD Pro Training course is designed to equip participants with the essential skills to model structures, perform structural analysis, and generate safe, code-compliant designs efficiently. Participants will gain hands-on experience in creating 3D models, applying loads, analyzing member forces, and designing structural elements, ensuring optimal performance and reliability.

Objectives

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

- Understand STAAD Pro interface, commands, and modeling environment.
- Create and edit structural models, including beams, columns, slabs, and trusses.
- Apply loads: dead, live, wind, seismic, and other load combinations.
- Perform linear and non-linear structural analysis.
- Design reinforced concrete, steel, and composite members according to international codes.
- Generate design reports, drawings, and material schedules.
- Optimize structural design for cost-effectiveness and safety.
- Apply best practices for project documentation and collaboration.

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Why Attend

Structural engineers, designers, and planners are increasingly required to deliver accurate, safe, and efficient structures within tight project deadlines. This course provides hands-on practical exposure to STAAD Pro, enabling participants to confidently model, analyze, and design structures according to modern engineering standards. Whether you are a beginner or seeking to upgrade your structural design skills, this training ensures you gain industry-ready proficiency in STAAD Pro.

Target Audience

This course is suitable for:

- Civil and Structural Engineers
- Design Engineers and CAD Technicians
- Site Engineers and Project Managers
- Engineering Students pursuing structural design knowledge
- Professionals involved in building, bridge, or industrial structure projects

Individual Benefits

- Gain practical expertise in STAAD Pro for structural modeling and analysis.
- Improve accuracy in design and documentation of structural projects.
- Learn to perform load application, analysis, and code-based design.
- Enhance problem-solving and decision-making skills in structural engineering.
- Increase employability and professional value in civil/structural engineering projects.
- Build confidence in managing real-world structural design challenges.

Organizational Benefits

- Improve project efficiency and reduce design errors.
- Standardize structural design workflows across teams.
- Ensure compliance with international design codes and safety standards.
- Enhance collaboration among engineering, planning, and construction teams.
- Reduce project costs by optimizing structural design.
- Build in-house expertise for structural engineering and design projects.

Instructional Methodology

The training employs a practical, project-based approach through:

- Interactive STAAD Pro demonstrations and guided exercises
- Real-world structural design case studies
- Step-by-step tutorials and instructor-led modeling sessions
- Group workshops and collaborative design exercises
- Assignments focused on practical structural engineering challenges
- Continuous feedback and Q&A sessions for individual improvement

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Course Outline

- Module 1: Introduction to STAAD Pro Interface and Project Setup
- Module 2: Creating and Editing Structural Models – Beams, Columns, Slabs, and Trusses
- Module 3: Load Application – Dead, Live, Wind, Seismic, and Load Combinations
- Module 4: Structural Analysis – Linear and Non-Linear Analysis
- Module 5: Design of Steel Structures Using STAAD Pro
- Module 6: Design of Reinforced Concrete Structures
- Module 7: Design of Composite Structures and Other Special Elements
- Module 8: Optimization and Cost-Effective Design Techniques
- Module 9: Output Interpretation, Reports, and Documentation
- Module 10: Capstone Project – Complete Structural Modeling, Analysis, and Design

Certification

Upon successful completion, participants will receive a Certificate in STAAD Pro Training, recognizing their proficiency in structural modeling, analysis, and design using the industry-leading structural engineering software.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

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