Training Course Flyer for:

Structure Analysis & Design STAAD Pro V8i

TRIPLE A
CONSULTANCY
We Provide Integrated Business Solutions

STAAD

COURSE OVERVIEW

This course provides a precise look over STAAD Pro V8i Design of sections (both concrete design and steel design). It demonstrates the steps to be followed to produce structural analysis and design of any type of buildings under any loading conditions.

COURSE OBJECTIVES

By completing this Training course, learners will be able to:

- Understand the basic concept of different design codes.
- Understand how multipurpose finite element programs conduct structural analysis.
- Understand STAAD Pro element library
- Understand STAAD Pro way of pre processing some special structures.
- Defining the special Load Systems (wind, earthquake, dynamic and hydraulic).
- Analyzing your Model using the appropriate Analysis method.
- Check the safety of the proposed steel sections
- Design the required steel sections to be used in both plane and space frames.
- Check the safety of the proposed reinforced concrete sections
- Design required reinforced concrete sections used in plane and space frames.

COURSE BENEFITS

This course is intended to overview the structural analysis and design of both steel structures and reinforced concrete structures by STAAD ProV8i.

COURSE OUTLINE

- Introduction to STAAD.Pro V8i.
- Model Generation Using The Pro-processor
- Building The Structure Geometry, Visualization and Structure Integrity
- Modeling By Using Structure Wizard.
- Modeling Beams, Columns, Slabs, Mat Foundation, Concrete & Steel Tanks.
- Create Parametric Models For Auto Meshing And Slab Openings.
- Assigning Properties, Members and Element Orientation, Material, connections information
- Loading types, Load Cases and Automatic Load Combinations.
- Member Specification, Releases, Tension Only, Compression Only And Member Cables.
- Troubleshooting Modeling Problems.
- Viewing and Validation The Analysis Results, Bending Moment,
- Shear forces, Normal Forces, Displacement, Supports Reaction, Plate Stresses, and Soil Pressure.
- Zero Stiffness Condition and Instabilities.
- Load Generation for Wind Loads.
- Load Generation for Vehicle loads.
- Seismic Analysis Using Static Equivalent Method Using UBC and IBC.
- Time History Analysis.
- Response Spectrum Analysis.
- Structure Dynamics, Mode Shapes.
- Creating Reports for the Analysis Results.
- Design Of Steel Structure, Optimization, Material Take off.
- Design of Concrete Beams, Columns, Slabs and Foundation.
- Physical Beam Design of Steel Structure and Connections and Detailed Calculation Sheet.
- Physical Beams, Columns of Concrete Structures and Detailed Calculation Sheet.

COURSE SCHEDULE

For information on course schedule, please review Triple A Consultancy Training courses Calendar.

DURATION

30 hours.

TARGET AUDIENCE

This training Course is absolutely ideal for civil engineers involved in design .

AWARD

Participants who have achieved a minimum of 75% class attendance and passed the end of course assessments will be awarded a certificate of successful completion of the STAAD Pro V8i course.

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