



Asia Masters Center

Advanced Analysis Of Staad Pro 2007



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Advanced Analysis Of Staad Pro 2007

Course Objective

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

Target Audience

- Engineers

Course Outline

- Introduction to STAAD.Pro 2007
- Building The Structure Geometry, Visualization and Structure Integrity, Checking tools.
- Model Generation Using The Pro-processor
- Modeling By Using Structure Wizard Modeling Beams, Columns, Slabs, Mat Foundation, Concrete and Steel Tanks.
- Create Parametric Models For Auto Meshing And Slab Openings.
- Assigning Properties, Members and Element Orientation, Material, connections information
- Member Specification, Releases, Tension Only, Compression Only And Member Cables.
- Loading types, Load Cases and Automatic Load Combinations.
- Troubleshooting Modeling Problems.
- Shear forces, Normal Forces, Displacement, Supports Reaction, Plate Stresses, and Soil Pressure.
- Viewing and Validation The Analysis Results, Bending Moment,
- Zero Stiffness Condition and Instabilities.
- Load Generation for Wind Loads.
- Seismic Analysis Using Static Equivalent Method Using UBC and IBC.
- Load Generation for Vehicle loads.
- Creating Reports for the Analysis Results.
- Time History Analysis.
- Structure Dynamics, Mode Shapes.
- Response Spectrum Analysis.
- 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.

- **The Feature Of Asia Master Training And Development Center**
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 - we give the participant training bag includes all the necessary tools for the course.
 - Working within groups to achieve the best results.
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 - We can assist you in booking hotels at discounted prices if you wish to book through us.
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- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
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Price (USD)

Communicate with the training department
to know the participation fees

➤ **There are offers and discounts for groups**

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