



Advance Steel

ESSENTIALS

Course Length:

16 Hours

Overview:

This course is recommended for Contractors and Structural Engineering students and professionals.

Learning Objectives:

- Explain the role of Autodesk Advance Steel in the BIM workflow for structural design and detailing.
- Create and organize steel projects using templates, grids, and coordinate systems.
- Model structural elements such as beams, columns, plates, and connections.
- Apply joints, welds, and parametric features to build accurate steel assemblies.
- Generate fabrication drawings, BOMs, and NC/DXF outputs for production.

Prerequisites:

It is recommended that the student has a working knowledge in Structural Engineering and are familiar with the latest versions of Microsoft Windows operating systems.

Acquisition:

Students will get a Training Module and an industry recognized Certificate of Completion.

Notes:

The course length is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the students.

Course Description:

This introductory level course will give the students a high-level understanding of the main productivity tools and workflows of Advance Steel for designing a building structure. During this session, the student will have a hands-on opportunity to know the capabilities and benefits of the structural workflow.

Topics Covered:

Introduction & Project Foundations

- Introduction to Autodesk Advance Steel interface and workflow
- Project creation and template setup
- Working in 3D CAD: navigation, object snaps, visual styles
- Coordinate systems and UCS control

Modeling Foundations: Grids & Basic Structures

- Building structural grids and levels
- Inserting columns and beams
- Beam properties and positioning (section, alignment, offsets)
- Simple editing tools (move, copy, mirror, trim/extend)

Joints, Plates, and Connections

- Automatic joints and connection vault
- Beam modifications: shorten, notch, contour, cope
- Plates and plate features: folding, chamfering, joining
- Connection elements: bolts, anchors, welds

Advanced Modeling & Validation

- Creating custom connections and templates
- Adding stairs, railings, bracing, and ladders
- Using the project explorer, views, and queries
- Running validation tools: collision check, technical check, marking

Documentation & Output

- Numbering and assigning model roles
- Drawing creation: GA, part, and assembly drawings
- Editing and annotating drawings
- Generating BOM and reports
- Exporting NC/DXF files for fabrication
- Managing document revisions

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