



AUTODESK ADVANCED STEEL ESSENTIAL TRAINING

Objectives

Advance Steel is a leading edge steel construction application designed for steel professionals. This training teaches users to use the tools and commands for creating 3D structural models from which drawings are created. The three dimensional model is created and stored in a drawing (in DWG format). The Advance Steel model forms the basis of the 3D construction. Complex structures are created using Advance Steel structural elements with all the required features, joints, and connections, within a command. After completing this course trainee will be able to:

- ✓ Learning Advance Steel user interface
- ✓ Creating Advance Steel 3D objects
- ✓ Creating steel connections
- ✓ Checking for clashing
- ✓ Numbering and marking
- ✓ Generating drawing
- ✓ Creating Bill of Materials

Duration

3-day

Training Programme Day 1

Chapter	Topic	Duration	Time
Chapter 1	The Advance Steel User Interface <ul style="list-style-type: none"> • Selecting Objects • Advance Properties • Advance Joint Properties • Joint Boxes • Deleting Objects • Undo • Object Snaps • 2D/3D Osnap 	1- Hour	09.00 am- 10.00 am
Chapter 2	Coordinate Systems <ul style="list-style-type: none"> • 3D Coordinates • World Coordinates • User Coordinate System • When to Use a UCS 	1-Hour	10.00 am- 11.00 am

Chapter 3	Building Grids <ul style="list-style-type: none"> • Creating a Building Grid • Grid Properties • Modifying Grids • Level Symbols 	2-Hour	11.00 am-01.00 pm
Chapter 4	Basic Structures <ul style="list-style-type: none"> • Structural Frames • Placing Sections • Beam Properties 	1-Hour	02.00 pm-03.00 pm
Chapter 5	Simple Editing <ul style="list-style-type: none"> • Overview • Layer Management • Common Basic CAD Editing Commands • Transform Elements • Advance Copy/Rotate/Array • Advance Trim/Extend 	1-Hour	03.00 pm-04.00 pm
Chapter 6	Connection Vault <ul style="list-style-type: none"> • Joint Properties • Repeating Joints • Joint Library • Joint Groups 	1-Hour	04.00 pm-05.00 pm

Training Programme Day 2

Chapter	Topic	Duration	Time
Chapter 7	Beam <ul style="list-style-type: none"> • Introduction • Coping or Notching Beams • Shorten at UCS • Cut at Object • Cope • Parametric Cope – Joint • Beam Clearance • Contour Features • Editing Features • Miter • Splitting and Joining Beams 	2- Hour	09.00 am-11.00 am

Chapter 8	Plates <ul style="list-style-type: none"> • Flat Plates • Plate Properties • Folded Plates • Gratings 	1-Hour	11.00 am- 12.00 pm
Chapter 9	Plate Features <ul style="list-style-type: none"> • Contour Features • Contour Processing Properties • Plate Contour Non UCS Features • Chamfers and Fillets • Dividing and Joining Plates 	1-Hour	12.00 am- 01.00 pm
Chapter 10	Connection Elements <ul style="list-style-type: none"> • Bolts • Bolt Properties • Anchors • Welds • Edit Connected Objects 	2-Hour	02.00 pm- 04.00 pm
Chapter 11	Custom Connections <ul style="list-style-type: none"> • Introduction • Modeling the Custom Connection • Building Bricks • Creating a Connection Template • Insert a Connection Template 	1-Hour	04.00 pm- 05.00 pm

Training Programme Day 3

Chapter	Topic	Duration	Time
Chapter 12	Project Explorer <ul style="list-style-type: none"> • Introduction • Levels • Work Planes and Columns • Model Views • Queries • Groups • Show All Objects • Structures 	1- Hour	09.00 am- 10.00 am

Chapter 13	Validating a Structure <ul style="list-style-type: none"> • Clash Check • Object Marking • Technical Check • Model Check • Joint Design 	2-Hour	10.00 am- 12.00 pm
Chapter 14	Numbering <ul style="list-style-type: none"> • Model Role • Numbering 	1-Hour	12.00 am- 01.00 pm
Chapter 15	Creating Drawings <ul style="list-style-type: none"> • Quick Documents Palettes • Drawing Styles • Drawing Processes • Cameras • Summary of Drawing Procedure • View Orientation • Setting up Documents Palettes 	1-Hour	02.00 pm- 03.00 pm
Chapter 16	Editing Drawings <ul style="list-style-type: none"> • Document Manager • Manipulating Drawings • Drawing Labels and Dimensions • Object Properties 	1-Hour	03.00 pm- 04.00 pm
Chapter 17	Lists <ul style="list-style-type: none"> • BOM Templates Palette • RDF Viewer • Selective Lists • Managing List 	1-Hour	04.00 pm- 05.00 pm