Autodesk Advance Steel Essentials

Duration : 5 Days

Overview

This course is designed for: Structural Fabricators and detailers who want to get to grips with the essentials of Advance Steel.

Prerequisites

Confident in the use of 2D CAD including basic drawing and editing commands, snaps, layers coordinates etc. However, drafting, design, or engineering experience is a plus. It is recommended that you have a working knowledge of Microsoft supported systems.

Objectives

The primary objective of this course is to teach delegates the essentials of Advance Steel and introduce the tools and processes for effective detailing within the Advance Steel software. After completing this course, delegates will be able to:

- Create Structural Model
- Add Connections to components
- Create fabrication drawings

Course Content Key Topics

DAYS 1 - 4

MODELLING

- Drawing beams individually and using macros.
- Placing parametric connections between members
- Copying and manipulating members and joints.
- Cutting and shaping beams
- Creating plates of all types and shapes
- Cutting and shaping plates
- Folded plates
- Connecting objects
- Clash checking and validating your structure

DOCUMENTATION AND ADMINISTRATION

- Assigning Model Roles
- Numbering parts and assemblies
- Creating GA drawings using Cameras
- Manipulating and editing drawings
- Creating lists such as Bills of Materials, Bolt Schedules, Loading Lists etc.

DAY 5 (optional)

ADVANCED SETUP

Day 5 is aimed at Advance Steel users looking to efficiently detail architectural metalwork components. To attend Day 5 you must have completed Advance Steel Essentials or be a regular user of Advance Steel.

The primary objective of this course is to teach delegates the concepts of architectural metalwork and introduce the tools and processes for architectural metalwork detailing within the Advance Steel software. After completing this course, delegates will be able to:

- Use the built-in stair and railing macros to maximum effect.
- Use optimum workflows to produce other common stair and railing configurations
- Glass Infill rails
- Create library of 3rd party components

During the 5th day of this course you will cover:

- Review abilities of Straight stair and railing macros
- Modelling In-fill panels
- Using special parts in railings
- Manual railings – part, pattern, connection etc.
- Spiral Stair macro
- Manual spiral stairs – part, pattern, connection etc.
- Winders
- Plate work – folded plates, conical plates, twisted folded plates
- Folded profiles
- Shaded views