

SOLIDWORKS Weldments

OVERVIEW

INSTRUCTOR-LED ONLINE LENGTH: 2 days

PREREQUISITES: Mechanical design experience; completion of SOLIDWORKS Essentials or similar experience.

DESCRIPTION: The SOLIDWORKS Weldments course will teach you how to create welded structures with standard structural members and weld beads.

LESSON 1:

BASIC FLANGE FEATURES

- Weldments
- Structural Members
- Groups vs. Structural Members
- Manual Trimming of Structural Members
- Adding Plates
- Gussets and End Caps
- Using Symmetry
- Profile Sketches
- Working with Weldments
- Managing the Cut List
- Advantages of a Multibody Part
- Limitations of a Multibody Part

LESSON 2:

WORKING WITH WELDMENTS

- Managing the Cut List
- Cut List Item Names
- Accessing Properties
- Cut-List Properties Dialog
- Structural Member Properties
- Adding Cut List Properties
- Bounding Boxes in Weldments
- Options for Generating Cut List Items
- Custom Structural Member Profiles
- Defining Material
- Creating Custom Profiles
- Standard or Configured Profiles
- Inserting Existing Parts
- When to Use an Assembly

LESSON 3:

CONFIGURING AND DETAILING WELDMENTS

- Weldment Configurations
- Post-Assembly Machining Features
- Weldment Drawings
- Drawing Views of Individual Bodies
- Representing Welds

LESSON 4:

WORKING WITH BENT STRUCTURAL MEMBERS

- Working with Bent Structural Members
- 3D Sketching

LESSON 5:

INTRODUCTION TO STRUCTURE SYSTEM

- Structure System
- Primary vs. Secondary Members
- Secondary Members