

# SOLIDWORKS WELDMENTS

**Length: 1.5 Days**

**Prerequisites:** SOLIDWORKS Essentials

**Description:** SOLIDWORKS Weldments teaches you how to create welded structures with standard and customized structural members. Weldment profiles, welded entities, corner treatments and much more are covered in this course.

## Course Syllabus

### Introduction

- About This Course
- Finding Commands
- More SOLIDWORKS Training Resources

### Lesson 1 – Weldment Features

- Weldment features and configurations
- Structural members and weldment profiles
- Corner treatments
- Groups vs Structural members
- Adding plates and holes
- Gussets and end caps
- Symmetry and multi-body parts

### Lesson 2 – Working with Weldments

- Creating and managing cut lists
- Accessing properties
- Structural member properties
- Bounding boxes in weldments
- Creating custom profiles
- Defining material
- Inserting existing parts
- When to use an assembly

### Lesson 3 – Configuring and Detailing Weldments

- Weldment configurations
- Post-assembly machining features
- Weldment drawings
- Using drawing views
- Representing welds

### Lesson 4 – Working with Bent Structural Members

- 3D Sketching
- Using reference planes
- Space handle
- Sketch entities and relations
- Visibility controls

### Lesson 5 – Introduction to Structure System

- Primary vs secondary members
- Primary member types
- Secondary member types
- Corner management

### Lesson 6 – Working with Structure System

- Managing the cut list
- Gussets and end caps
- Bounding boxes in structure system

### Lesson 7 – Defining and Inserting Connection Elements

- What are connection elements?
- Feature propagation
- Dimension group
- Cut scope
- L clips
- Patterning
- Beam splice



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