

# SOLIDWORKS Weldments



## Overview:

This course teaches you how to create welded structures with standard structural members. Weld beads are also covered.



## Duration:

InClass: 1.5 Days (Full Time) 8:30am- 4:30pm

Distance Learning: 7 Days (Part Time)



## Pre-requisites:

- Complete / attend Introduction to Technical Drawing course or similar experience
- Complete the SOLIDWORKS Essentials
- Computer literacy skills
- Understanding & reading technical drawings

## Weldment Features

- Weldments
- Structural members
- Groups vs. structural members
- Adding plates and hoes
- Gussets and end caps
- Using symmetry
- Advantages of a multibody part
- Limitations of a multibody part

## Working with Weldments

- Managing the cut list
- Cat list item names
- Accessing properties
- Cut-list properties dialog
- Structural member properties
- Adding cut list properties
- Bounding box in weldments
- Options for generating cut list items
- Custom structural member profiles
- Defining materials
- Creating custom profiles
- Standard or configured profiles
- Inserting existing parts
- When to use an assembly



**Configuring and Detailing Weldments**

- Weldment configuration
- Post-assembly machining features
- Weldment drawings
- Drawing views of individual bodies
- Representing welds

**Working with Bent Structural Members**

- Working with structural members
- 3D Sketching

**Intro to Structure Systems**

- Structure systems
- Primary vs. secondary members
- Secondary members

**Working with Structure Systems**

- Managing the Cut List
- Case Study
- Gussets and End Caps
- Bounding Boxes in Structure Systems

**Defining and Inserting Connection Elements**

- Connections
- Case Study
- Define Connection Elements
- Inserts Connection Element

