

SOLIDWORKS Weldments Course Outline

 DURATION/TIME 2 Days 9:00 am - 5:00 pm	 METHODOLOGY Practical hands-on with using computers, lecturing, discussions and case studies.
 PREREQUISITES Experience with the Windows™ Operating System. Attended SOLIDWORKS Essentials training course	 TARGET Application Engineer, R&D Engineer, Product Designer or Engineer, and Industrial Engineer

INTRODUCTION

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

OBJECTIVE

At the end of this program participants are expected to:

- Create weldment designs using the weldment tools in SOLIDWORKS.
- Create drawings with Cut-lists and weldment information.
- Add weld beads and weld information to your drawings
- Use weldments in your assemblies.

CONTACT

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SOLIDWORKS Weldments

DAY 1

Course Outline:

Lesson 1: Weldment Features

- Weldments
- Structural Members
- Groups vs. Structural Members
- Adding Plates and Holes
- Gussets and End Caps
- Using Symmetry
- Advantages of a Multibody Part
- Sharing a Model
- 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

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SOLIDWORKS Weldments

DAY 2

Course Outline:

Lesson 5: Introduction to Structure System

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

Lesson 6: Working with Structure System

- Managing the Cut List
- Case Study
- Gussets and End Caps
- Bounding Boxes in Structure System
- Linking Cut List Properties to File Properties

Lesson 7: Defining and Inserting Connection Elements

- Connections
- Case Study
- Define Connection Element
- Insert Connection Element

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