



SOLIDWORKS WELDMENTS

Who should attend:

Application Engineer
R&D Engineer
Product Designer or Engineer
Industrial Engineer

Prerequisites:

Attended SOLIDWORKS Essentials Course

Basic understanding of part design and drafting

Mechanical Design Experience

Duration:

1 Day

Methodology:

Practical hands-on with using computers, lecturing, discussions and case studies

Introduction

Mastering the SOLIDWORKS Weldments environment provides you time saving of up to 90% compared to the traditional assembly workflows, for any user who designs structures made out of components with constant profiles. The knowledge you will gain can be applied to various applications such as welded structures, wood decks, fences, stairs or railings. As a bonus, using Weldments allows you to rapidly analyse very large structures with much lower computational resources using SOLIDWORKS Simulation.

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

IME CADCAM TRAINING CENTRE SDN BHD

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WELDMENTS

Key Topics

Day 1

Course Outline:

Lesson 1: Weldment Features

- Weldments
- Structural Members
- Group vs. Structural Members
- Adding Plates and Holes
- Gussets and End Caps
- Using Symmetry
- Advantage of a Multibody Part
- Limitations of a Multibody Part

Lesson 2: Working with Weldments

- Managing The Cut List
- Cut Lists 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

- Welding 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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