





SOLIDWORKS Surface Modeling

Course Outline

 <p>DURATION / TIME</p> <p>3 Days 9:00 am - 5:00 pm</p>	 <p>METHODOLOGY</p> <p>Practical hands-on with using computers, lecturing, discussions, and case studies.</p>
 <p>PREREQUISITES</p> <p>Experience with the Windows™ Operating System. Completed SOLIDWORKS Essentials and Advanced Part Modeling training courses</p>	 <p>TARGET</p> <p>Application Engineer, R&D Engineer, Product Designer or Engineer, and Industrial Engineer</p>

INTRODUCTION

Surface Modeling teaches you how to build freeform shapes using SOLIDWORKS mechanical design automation software.


OBJECTIVE


At the end of this program participants are expected to:


- Create complex surface designs using Surface Loft and Sweep.
- Repair imported geometry using SOLIDWORKS Surfacing tools.
- Use a master part model to create different versions of your design.

CONTACT

IME CADCAM TRAINING CENTRE SDN BHD
 Certified ISO 9001:2015 QMS

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SOLIDWORKS Surface Modeling

DAY 1

Course Outline:

Lesson 1: Understanding Surfaces

- Solids and Surfaces
- What is a Solid?
- Behind the Scenes
- Creating Solids from Surfaces
- Decomposing a Solid into Surfaces
- Additional Surface Concepts
- Take Always
- Why Use Surfaces?
- Continuity Explained
- Workflow with Surfaces

Lesson 2: Introduction to Surfacing

- Similarities Between Solid and Surface Modelling
- Basics Surfacing
- Sharing a Model
- Alternative to Trim


Lesson 3: Solid-Surface Hybrid Modeling


- Hybrid Modeling
- Using Surfaces to Modify Solids
- Interchanging Between Solids and Surfaces
- Performance Implications
- Surfaces as Construction Geometry
- Intersection Curve Feature
- Making Copies of Faces
- Flattening Surfaces

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DAY 2

Course Outline:

Lesson 4: Repairing and Editing Imported Geometry

- Importing Data
- File Transition
- Why Do Imports Fail?
- SOLIDWORKS Import Options
- Importing a STEP File
- Comparing Geometry
- Addressing Translation Errors
- Repairing and Editing Imported Geometry
- Procedure for Rebuilding Fillets

Lesson 5: Blends and Patches

- Smoothing Patches
- Boundary Surface
- Corner Blends


Lesson 6: Complex Blends


- Complex Blends
- Freeform Feature


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CERT NO: QMS 02287

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DAY 3

Course Outline:

Lesson 7: Advanced Surface Modeling

- Stages in Process
- Modeling the Lower Half
- Design Changes

Lesson 8: Master Model Techniques


- Introduction to Master Models
- Surface Master Model Techniques
- Working with a Solid Master Model
- Specialized Features for Plastic Parts


Test and Assessments


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