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COURSE OUTLINE

Mold Design Using SOLIDWORKS

Duration: 2.0 Day/s

Prerequisites: SOLIDWORKS Advanced Part Modeling

Mold Design Using SOLIDWORKS teaches you several manual mold creation techniques and how the Mold Tools in SOLIDWORKS Mechanical design automation software.

Course Outline

- Introduction
 - About This Course
 - Windows 7
 - Use of Color
- Lesson 1: Surface Concepts and Imported Geometry
 - Course Overview
 - Hide/Show Tree Item
 - Accessing Commands
 - Importing Data
 - 3D Model Types
 - Definition
 - Case Study: Solid vs. Surface
 - Terminology
 - File Translators
 - Modeling Systems
 - File Translation
 - Why Do Imports Fail?
 - Diagnosis and Repair
 - Case Study: Repairing and Editing Imported Geometry
 - Checking Solid Bodies
 - Making Copies of Faces
 - Case Study: Import Diagnostics
 - Repair Gaps
 - Repairing Faces

- Lesson 2: Core and Cavity
 - Core and Cavity Mold Design
 - SOLIDWORKS Mold Tools
 - Case Study: Camera Body
 - Mold Analysis Tools
 - Analyzing Draft on a Model
 - Using the Draft Analysis Tool
 - Draft Analysis Options
 - Adding Draft
 - Scaling the Model
 - Establish the Parting Lines
 - Shut-Off Surfaces
 - Surfaces Bodies
 - Creating the Mold Tooling
 - Seeing Inside the Mold
 - Interlocking the Mold Tooling
 - Creating Part and Assemblies Files
- Lesson 3: Side Cores and Pins
 - Additional Mold Tooling
 - Case Study: Power Saw Housing
 - Trapped Molding Areas
 - Side Cores
 - Feature Freeze
 - Lifters
 - Core Pins
 - Manual Selection Techniques
 - Case Study: Mixer Base
 - Modifying Shut-Off Surfaces
 - Completing the Tooling
- Lesson 4: Advanced Parting Line Options
 - Case Study: Manual Parting Line
 - Case Study: Splitting a Part
- Lesson 5: Creating Surfaces for Mold Design
 - Surfacing Modeling for Mold Design
 - Case Study: Drill Bezel
 - Case Study: Router Bottom

- Lesson 6: Advanced Surfacing for Mold Design
 - Surface Modeling for Mold Design
 - The Mixer
 - Case Study: Mixer Rear Housing
 - Case Study: Mixer Handle
- Lesson 7: Alternative Methods for Mold Design
 - Alternate Methods for Mold Design
 - Case Study: Using Combine and Split
 - Creating a Cavity
 - Case Study: Cavity
 - Case Study: Using Surfaces
 - Techniques from Mold Tooling
- Lesson 8: Reusable Data
 - Reusing Data
 - Task Pane
 - SOLIDWORKS Resources
 - Design Library
 - File Explorer
 - Case Study: 3D ContentCentral
 - Library Features
 - Case Study: Create A Library Feature
 - Configuration in Library Features
 - Case Study: Water Line
 - Smart Components
- Lesson 9: Completing the Mold Base
 - Case Study: Mold Base
 - Organizing the Assembly
 - Modifying the Lifters
 - Lifter Motion
 - Ejector Pins
 - Cooling the Mold
 - Making the Drawing
 - Making Changes
 - Completing the Process