

Mold Design Using SolidWorks

Length: 1 day

Prerequisites: SolidWorks Essentials

Description: The Mold Design Course teaches you techniques for manual mold creation.



Introduction

- ❖ About This Course
- ❖ Windows® XP
- ❖ Use of Color

Lesson 1: Core and Cavity

- ❖ Case Study: A Simple Two Plate Mold Design
- ❖ Mold Analysis Tools
- ❖ Analyzing Draft on a Model
- ❖ Draft Analysis Colors
- ❖ Scale the Part to Allow for Shrinkage
- ❖ Determine the Parting Lines
- ❖ Manual Selection of Parting Lines
- ❖ Automation
- ❖ Modeling the Parting Surfaces
- ❖ Smoothing the Parting Surface
- ❖ Interlocking the Mold Tooling
- ❖ Creating the Mold Tooling

Lesson 2: Repairs and Surfaces

- ❖ Case Study: Plastic Bezel of a Cordless Drill
- ❖ Creating New Drafted Faces
- ❖ Complex Shut-off Surfaces
- ❖ Interlock Surfaces

Lesson 3: Multiple Parting Directions

- ❖ Case Study: Multiple Parting Directions
- ❖ Trapped Molding Areas
- ❖ Side Cores
- ❖ Lifters
- ❖ Core Pins
- ❖ Case Study: Electrode Design
- ❖ Electrode Clearances
- ❖ Keeping the Sharp Edges

Lesson 4: Alternate Methods for Mold Design

- ❖ Alternate Methods for Mold Design
- ❖ Using Combine and Split
- ❖ Using Surfaces
- ❖ Using the Up To Surface Method
- ❖ Using the Split Method
- ❖ Manually Creating Shut-off Surfaces