

Course Content

Module 1. Introduction to the Creo Parametric Basic Mold Process

- i. Creo Parametric Basic Mold Process

Knowledge Check Questions

Module 2. Design Model Preparation

- i. Understanding Mold Theory
- ii. Preparing Design Models for the Mold Process
- iii. Creating Profile Rib Features
- iv. Creating Drafts Split at Sketch
- v. Creating Drafts Split at Curve
- vi. Creating Drafts Split at Surface

Knowledge Check Questions

Module 3. Design Model Analysis

- i. Analyzing Design Models Theory
- ii. Performing a Draft Check
- iii. Performing a Section Thickness Check
- iv. Performing a Thickness Check

Knowledge Check Questions

Module 4. Mold Models

- i. Creating New Mold Models
- ii. Analyzing Model Accuracy
- iii. Locating the Reference Model
- iv. Assembling the Reference Model
- v. Creating the Reference Model
- vi. Redefining the Reference Model
- vii. Analyzing Reference Model Orientation
- viii. Analyzing Mold Cavity Layout
- ix. Analyzing Variable Mold Cavity Layout
- x. Analyzing Mold Cavity Layout Orientation
- xi. Calculating Projected Area

Knowledge Check Questions

Module 5. Shrinkage

- i. Understanding Shrinkage
- ii. Applying Shrinkage by Scale
- iii. Applying Shrinkage by Dimension

Knowledge Check Questions

Module 6. Workpieces

- i. Creating Display Styles
 - ii. Creating a Workpiece Automatically
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- iii. Creating a Custom Automatic Workpiece
- iv. Creating and Assembling a Workpiece Manually
- v. Reclassifying and Removing Mold Model Components

Knowledge Check Questions

Module 7. Mold Volume Creation

- i. Surfacing Terms
- ii. Understanding Mold Volumes
- iii. Sketching Mold Volumes
- iv. Creating Sliders using Boundary Quilts
- v. Sketching Slider Mold Volumes
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- vii. Sketching Lifter Mold Volumes
- viii. Replacing Surfaces and Trimming to Geometry
- ix. Sketching Insert Mold Volumes

Knowledge Check Questions

Module 8. Parting Lines

- i. Understanding Parting Lines
- ii. Creating an Automatic Parting Line Using Silhouette Curves
- iii. Analyzing Silhouette Curve Options: Slides
- iv. Analyzing Silhouette Curve Options: Loop Selection

Knowledge Check Questions

Module 9. Skirt Surfaces

- i. Understanding Parting Surfaces
- ii. Creating a Skirt Surface
- iii. Analyzing Skirt Surface Options: Extend Curves
- iv. Analyzing Skirt Surface Options: Tangent Conditions
- v. Analyzing Skirt Surface Options: Extension Directions
- vi. Analyzing Skirt Surface Options: ShutOff Extension

Knowledge Check Questions

Module 10. Parting Surface Creation

- i. Analyzing Surface Editing and Manipulation Tools
- ii. Merging Surfaces
- iii. Creating a Shadow Surface
- iv. Creating a Parting Surface Manually
- v. Creating Saddle Shutoff Surfaces
- vi. Creating Fill Surfaces
- vii. Extending Curves
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- ix. Creating Shut Offs

Knowledge Check Questions

Module 11. Splitting Mold Volumes

- i. Splitting the Workpiece
- ii. Splitting Mold Volumes
- iii. Splitting Volumes using Multiple Parting Surfaces
- iv. Blanking and Unblanking Mold Items
- v. Analyzing Split Classification

Knowledge Check Questions

Module 12. Mold Component Extraction

- i. Extracting Mold Components from Volumes
- ii. Applying Start Models to Mold Components

Knowledge Check Questions

Module 13. Mold Features Creation

- i. Creating Waterline Circuits
- ii. Analyzing Waterline End Conditions
- iii. Performing a Waterlines Check
- iv. Understanding Mold Analysis Settings
- v. Creating Sprues and Runners
- vi. Creating Ejector Pin Clearance Holes
- vii. Creating UDFs
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Knowledge Check Questions

Module 14. Filling and Opening the Mold

- i. Creating a Molding
- ii. Opening the Mold
- iii. Draft Checking a Mold Opening Step
- iv. Interference Checking a Mold Opening Step
- v. Viewing Mold Information

Knowledge Check Questions
