

Creo : Creo Mold Design

Find a Class

COURSE TYPE

- Tool Design or Expert Moldbase Extension

DURATION

- 2 Days

DELIVERY METHOD

- Instructor-Led Virtual (Public or Private)
- In-Person (Public or Private)

COURSE OVERVIEW

In this course, you will learn advanced Creo CAD data management tips, techniques, processes, and best practices that will enhance your Creo CAD data management strategies.

PREREQUISITES

Students should be familiar with the basics of Windows operating system.

COURSE AGENDA

Day 1

- Module 1 Introduction to the Creo Parametric Basic Mold Process
- Module 2 Design Model Preparation
- Module 3 Design Model Analysis
- Module 4 Mold Models
- Module 5 Shrinkage
- Module 6 Workpieces
- Module 7 Mold Volume Creation

Day 2

- Module 8 Parting Line and Parting Surface Creation
- Module 9 Splitting Mold Volumes
- Module 10 Mold Component Extraction
- Module 11 Mold Features Creation
- Module 12 Filling and Opening the Mold

CREO: Mold Design

Module 1 Module 1. Introduction to the Creo Parametric Basic Mold Process	Module 2 Module 2. Design Model Preparation
i. Creo Parametric Basic Mold Process	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
Module 3 Module 3. Design Model Analysis	Module 4 Module 4. Mold Models
i. Analyzing Design Models Theory ii. Performing a Draft Check iii. Understanding Mold Analysis Settings iv. Performing a Thickness Check	i. Creating New Mold Models ii. Analyzing Model Accuracy iii. Locating the Reference Model iv. Assembling the Reference Model v. Creating the Reference Model

		<ul style="list-style-type: none"> 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
	<p>Module 5 Shrinkage</p> <ul style="list-style-type: none"> i. Understanding Shrinkage ii. Applying Shrinkage by Scale iii. Applying Shrinkage by Dimension 	<p>Module 6 Workpieces</p> <ul style="list-style-type: none"> i. Creating Style States Using the View Manager ii. Creating a Workpiece Automatically iii. Creating a Custom Automatic Workpiece iv. Creating and Assembling a Workpiece Manually v. Reclassifying and Removing Mold Model Components
	<p>Module 7 Mold Volume Creation</p> <ul style="list-style-type: none"> i. Surfacing Terms ii. Understanding Mold Volumes iii. Sketching Mold Volumes iv. Creating Sliders using Boundary Quilts v. Sketching Slider Mold Volumes vi. Creating a Reference Part Cutout vii. Sketching Lifter Mold Volumes viii. Replacing Surfaces and Trimming to Geometry ix. Sketching Insert Mold Volumes 	<p>Module 8 Parting Line and Parting Surface Creation</p> <ul style="list-style-type: none"> i. Understanding Parting Lines and Parting Surfaces ii. Creating an Automatic Parting Line using Silhouette Curves iii. Analyzing Silhouette Curve Options: Slides iv. Analyzing Silhouette Curve Options: Loop Selection v. Creating a Skirt Surface vi. Analyzing Skirt Surface Options: Extend Curves vii. Analyzing Skirt Surface Options: Tangent Conditions viii. Analyzing Skirt Surface Options: Extension Directions ix. Analyzing Skirt Surface Options: ShutOff Extension x. Analyzing Surface Editing and Manipulation Tools xi. Merging Surfaces xii. Creating Saddle Shutoff Surfaces xiii. Creating a Parting Surface Manually
	<p>Module 9 Splitting Mold Volumes</p> <ul style="list-style-type: none"> 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 	<p>Module 10 Mold Component Extraction</p> <ul style="list-style-type: none"> i. Extracting Mold Components from Volumes ii. Applying Start Models to Mold Components
	<p>Module 11 Mold Features Creation</p> <ul style="list-style-type: none"> i. Creating Waterline Circuits ii. Analyzing Waterline End Conditions iii. Performing a Waterlines Check i v. Creating Sprues and Runners v. Creating Ejector Pin Clearance Holes vi. Creating UDFs vii. Placing UDFs 	<p>Module 10 Filling and Opening the Mold</p> <ul style="list-style-type: none"> 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