

Milling using Creo Parametric

Overview

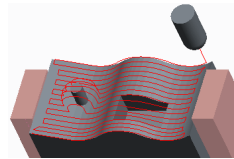
Course Length

40 Hours

In this course, you will learn how to machine products using Creo Parametric manufacturing tools. This course covers creating tool paths for three axis milling machines. During the course, you will learn how to complete each phase of the manufacturing process. You will start by creating manufacturing models and configuring the manufacturing environment. This will include configuring tools, fixtures, and machining operations. You will then learn how to create milling sequences, holmaking sequences, and post-process cutter location (CL) data to create machine code. After completing the course, you will be able to create numerical control (NC) programs for milling machines and post-process cutter location (CL) data to create machine specific code.

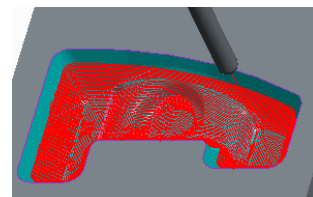
At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in PTC University Proficiency intended to evaluate your understanding of the course as a whole.

This course has been developed using Creo Parametric.



Course Objectives

- Understand the manufacturing process
- Create and configure manufacturing models
- Configure the manufacturing environment
- Create and modify milling sequences
- Create and modify holmaking sequences
- Use the process manager to create NC sequences
- Post-process cutter location (CL) data





Prerequisites

- Introduction to Creo Parametric – Fundamentals (Web Based Training) or equivalent experience

Audience

- This course is intended for manufacturing engineers and NC machinists
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Agenda

Day 1

| | | |
|--------|---|--|
| Module | 1 | Introduction to Manufacturing |
| Module | 2 | Creating Manufacturing Models |
| Module | 3 | Configuring Operations |
| Module | 4 | Using Reference Models |
| Module | 5 | Using Workpiece Models |
| Module | 6 | Creating and Using NC Model Assemblies |
| Module | 7 | Creating and Configuring a Work Center |

Day 2

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| Module | 8 | Creating and Configuring Tools |
| Module | 9 | Using Template Manufacturing Models |
| Module | 10 | Using Manufacturing Parameters |
| Module | 11 | Creating Face Milling Sequences |

Day 3

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| Module | 12 | Creating Volume Milling Sequences |
| Module | 13 | Creating Profile Milling Sequences |
| Module | 14 | Creating Straight Cut Surface Milling Sequences |
| Module | 15 | Creating From Surface Isolines Surface Milling Sequences |

Day 4

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|--------|----|---|
| Module | 16 | Creating Cut Line Surface Milling Sequences |
| Module | 17 | Advanced Surface Milling Options |
| Module | 18 | Creating Roughing and Re-roughing Sequences |
| Module | 19 | Creating Finishing Sequences |

Day 5

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|--------|----|--|
| Module | 20 | Creating Trajectory Milling Sequences |
| Module | 21 | Creating Holemaking Sequences |
| Module | 22 | Creating Engraving Sequences |
| Module | 23 | Using the Process Manager |
| Module | 24 | Creating and Post-Processing CL Data Files |
