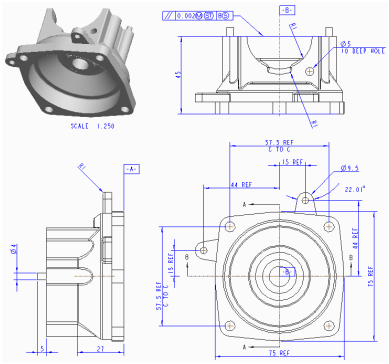
PTC® University

Detailing using Creo Parametric 3.0

Overview

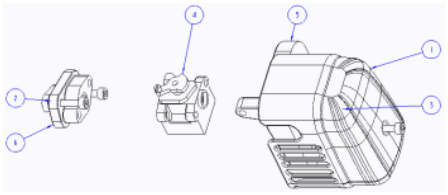
Course Code	TRN-4505-T
Course Length	3 Days



In this course, you will learn how to quickly create detailed drawings using information captured within 3-D design models. You will also learn how to create drawings, how to detail drawings, and how to take advantage of the parametric and associative nature of Creo Parametric 3.0 when configuring drawings. After completing this course, you will be able to create production drawings suitable for manufacturing.

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 Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives



- Understand the drawing development process
- Create new drawings using formats and drawing templates
- Create different types of views in drawings
- Create dimensions and notes
- Control display options using layers
- Apply dimensional and geometric tolerances in drawings
- Add draft geometry and symbols to drawings
- Use layers in drawings to control the display of views and detail items
- Create drawing tables and a bill of materials
- Create drawing formats
- Configure the drawing environment
- Manage large drawings

Prerequisites

- Introduction to Creo Parametric 3.0

Audience

- This course is intended for mechanical designers and design engineers. People in related roles will also benefit from taking this course.

Agenda

Day 1

Module	1	Introduction to Drawings
Module	2	Creating New Drawings
Module	3	Creating Drawing Views

Day 2

Module	4	Adding Model Details to Drawings
Module	5	Adding Notes to Drawings
Module	6	Adding Tolerance Information
Module	7	Adding Draft Geometry and Symbols

Day 3

Module	8	Using Layers in Drawings
Module	9	Creating and Using Tables in Drawings
Module	10	Using Report Information in Drawings
Module	11	Creating Drawing Formats
Module	12	Configuring the Drawing Environment
Module	13	Managing Large Drawings

Course Content

Module 1. Introduction to Drawings

i. Understanding Drawing Concepts
ii. Drawing Development Process
iii. Understanding the Drawing Ribbon User Interface
iv. Exploring Drawing Ribbon Commands

Knowledge Check Questions

Module 2. Creating New Drawings

i. Creating Drawings Using Formats and Sheets
ii. Creating Drawing Templates
iii. Creating Drawings Using Drawing Templates

Knowledge Check Questions

Module 3. Creating Drawing Views

i. Configuring Drawing Models
ii. Configuring Drawing Sheets
iii. Adding General Views
iv. Adding Projection Views
v. Editing Drawing Views
vi. Editing Visible View Area
vii. Adding Detailed Views
viii. Adding Auxiliary Views
ix. Understanding Cross-Section Concepts and View Types
x. Adding 2-D Cross-Section Views
xi. Modifying Cross Hatching Display
xii. Adding Assembly Exploded Views

Knowledge Check Questions

Module 4. Adding Model Details to Drawings

i. Understanding Annotations in Drawings
ii. Showing, Erasing, and Deleting Annotations
iii. Inserting Driven Dimensions
iv. Inserting Ordinate Dimensions
v. Adjusting Dimensions and Detail Items
vi. Changing Dimension Display

Knowledge Check Questions

Module 5. Adding Notes to Drawings

i. Adding and Editing Notes
ii. Using Parametric Information and Special Characters in Notes

Knowledge Check Questions

Module 6. Adding Tolerance Information

i. Understanding Dimensional Tolerances
ii. Configuring Dimensional Tolerances
iii. Understanding Geometric Tolerances
iv. Setting Up Geometric Tolerance References
v. Applying Geometric Tolerances

Knowledge Check Questions

Module 7. Adding Draft Geometry and Symbols

i. Creating and Editing Draft Geometry
ii. Understanding Drawing Symbols
iii. Using Surface Finish Symbols
iv. Using the Symbol Palette and Custom Symbols
v. Creating Symbols

Knowledge Check Questions

Module 8. Using Layers in Drawings

i. Understanding Layers in Drawings
ii. Using Layers in Drawings

Knowledge Check Questions

Module 9. Creating and Using Tables in Drawings

i. Inserting Tables
ii. Editing Table Properties
iii. Creating Tables from File
iv. Creating Hole Tables

Knowledge Check Questions

Module 10. Using Report Information in Drawings

i. Creating Report Tables
ii. Editing Report Tables
iii. Creating BOM Balloons
iv. Creating Part Catalog Drawings

Knowledge Check Questions

Module 11. Creating Drawing Formats

i. Creating Drawing Formats

Knowledge Check Questions

Module 12. Configuring the Drawing Environment

i. Configuring the Drawing Environment

Knowledge Check Questions

Module 13. Managing Large Drawings

i. Understanding Drawing Regeneration
ii. Managing Large Drawings

Knowledge Check Questions