

## Detailing with Pro/ENGINEER Wildfire 4.0

Course Code TRN-2173-T

Course Length 3 Days

### Overview

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Detailing with Pro/ENGINEER Wildfire 4.0 is a comprehensive training course that teaches you how to quickly create detailed drawings using information captured within 3-D design models. In this course, you learn how to create drawings, how to detail drawings, and how to take advantage of the parametric and associative nature of Pro/ENGINEER Wildfire 4.0 when configuring drawings.

At the end of each module, you will find a set of review questions to reinforce critical topics from that module. Your instructor will discuss these with the class. At the end of the course, you will find a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

After completing this course, you will be able to create production drawings suitable for manufacturing.

### Course Objectives

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- 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

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- Introduction to Pro/ENGINEER Wildfire 4.0.

### Audience

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- This course is intended for mechanical designers, design engineers, and related roles.
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## Agenda

### Day 1

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Module 1 Introduction to Drawings

Module 2 Creating New Drawings

Module 3 Creating Drawing Views

### Day 2

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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

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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

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## Course Content

### Module 1. Introduction to Drawings

- i. Understanding Drawing Concepts
- ii. Drawing Development Process

### Module 2. Creating New Drawings

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

### Module 3. Creating Drawing Views

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

### Module 4. Adding Model Details to Drawings

- i. Displaying Model Dimensions and Detail Items
- ii. Inserting Driven Dimensions
- iii. Inserting Ordinate Dimensions
- iv. Adjusting Dimensions and Detail Items
- v. Changing Dimension Display

### Module 5. Adding Notes to Drawings

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

### 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

### Module 7. Adding Draft Geometry and Symbols

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

**Module 8. Using Layers in Drawings**

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

**Module 9. Creating and Using Tables in Drawings**

- i. Creating and Configuring Tables
- ii. Creating Hole Tables

**Module 10. Using Report Information in Drawings**

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

**Module 11. Creating Drawing Formats**

- i. Creating Drawing Formats

**Module 12. Configuring the Drawing Environment**

- i. Configuring the Drawing Environment

**Module 13. Managing Large Drawings**

- i. Understanding Drawing Regeneration
  - ii. Managing Large Drawings
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