

## Introduction to PTC Creo Illustrate 3.1

### Overview

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Course Code	TRN-4555-T
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Course Length	8 Hours
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In this course, you will learn about Creo Illustrate and its role as a purpose-built, role-based solution for creating 3-D technical illustrations. You will learn how to dynamically create technical illustrations from existing 3-D CAD data. You will also learn how to map existing eBOM data to populate an illustration-specific sBOM. In addition, you will learn how to manipulate imported 3-D viewables to create service information content including service procedures, parts identification, training materials, and product assembly and disassembly. Finally, you will learn how to create markup and annotations in figures and animations.

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 Illustrate 3.1 F000.



## Course Objectives

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- Demonstrate fundamental Creo Illustrate illustration and figure creation steps to produce an illustration-specific sBOM from imported 3-D CAD data
- List and describe methods and tools used to create exploded views, create section cuts, and remove graphic objects from an illustration
- Modify illustrations by adding rendering styles, color, and work with the Creo Illustrate 3-D symbols library
- Create and manage a parts list from the Creo Illustrate sBOM
- Create step-wise documentation using the Sequencer module
- Use the Creo Illustrate Animator tools to create animated illustrations
- Create parts list callouts and annotations in illustration figures
- Save, export, and publish illustrations



## Prerequisites

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- Familiarity with Windows-based file systems and mouse operations
- Familiarity with creating 2-D and 3-D illustrations from CAD data sources

## Audience

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- This course is intended for technical publications illustrators, technical publications authors, training authors, manufacturing instructors, and users responsible for parts definition, technical marketing, and service planning. People in related roles will also benefit from taking this course.
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## Agenda

### Day 1

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Module	1	Introduction to Creo Illustrate
Module	2	Create an Illustration and Work with Figures
Module	3	Exploding Assemblies
Module	4	Authoring Sequenced Process Steps
Module	5	Creo Illustrate Animations
Module	6	Create and Manage Annotations, Sub-Assemblies, and Parts Lists
Module	7	Publishing and Exporting 3-D Illustrations

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## Course Content

### Module 1. Introduction to Creo Illustrate

- i. Introducing Creo Illustrate
- ii. The Creo Illustrate Process
- iii. Understanding the Creo Illustrate User Interface
- iv. The Creo Illustrate Figure Viewing Area
- v. The Creo Illustrate Ribbon
- vi. The Creo Illustrate Ribbon Home Tab
- vii. The Creo Illustrate File Menu
- viii. The Creo Illustrate Quick Access Toolbar
- ix. The Creo Illustrate Primary Panel
- x. The Creo Illustrate Upper Data Panel
- xi. The Creo Illustrate Lower Data Panel
- xii. Creo Illustrate Structure Tree
- xiii. The Creo Illustrate Status Bar
- xiv. Starting Creo Illustrate
- xv. Working with Creo Illustrate

#### *Knowledge Check Questions*

### Module 2. Create an Illustration and Work with Figures

- i. Import 3-D MCAD Data
- ii. Working with Figures
- iii. Page Setup
- iv. sBOM Structure versus Displayed Parts and Sub-Assemblies
- v. Figure Orientation
- vi. Selecting Parts and Sub-Assemblies
- vii. Find Parts and Sub-Assemblies
- viii. Changing the Figure Display
- ix. Figure Rendering Options
- x. Enhanced Lighting
- xi. Hide and Unhide Parts and Sub-Assemblies
- xii. Inset Views
- xiii. Filters

#### *Knowledge Check Questions*

### Module 3. Exploding Assemblies

- i. Explode Figures
  - ii. Transform Exploded Figures
  - iii. Free Rotation Exploded Figures
  - iv. Restore Part and Sub-Assembly Locations
  - v. Create Explode Lines
  - vi. Smart Explode
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- vii. Working with Smart Explode Selection
- viii. Setting the Smart Explode Direction
  - ix. Change Smart Explode Options
  - x. Save and Exit Smart Explode
- xi. Section an Assembly
- xii. Orient the Sectioning Plane
- xiii. Advanced Sectioning Features
- xiv. Create Quarter Cut Sections
- xv. Cap the Section
- xvi. Set Specific Parts to be Sectioned

*Knowledge Check Questions*

**Module 4. Authoring Sequenced Process Steps**

- i. The Sequencer Process
- ii. Creating Sequence Steps
- iii. Editing Sequence Steps
- iv. Adding Tagged Symbols and Callouts
- v. Reordering Steps within the Sequence

*Knowledge Check Questions*

**Module 5. Creo Illustrate Animations**

- i. Figure Animations
- ii. Animation Control Tools
- iii. Playback Controls
- iv. Tracks and Keys
- v. Timeline Control Tools
- vi. Recording Control Tools
- vii. Creating an Animation
- viii. Using Animation Effects
- ix. Editing Tracks
- x. Editing Keys
- xi. Easing Movement
- xii. Previewing the Animation Path
- xiii. Exporting a Figure Animation as a Movie

*Knowledge Check Questions*

**Module 6. Create and Manage Annotations, Sub-Assemblies, and Parts Lists**

- i. Annotating Figures
  - ii. Customizing Tooltips
  - iii. Notes and Callout Annotations
  - iv. Leader Line Annotations
  - v. Stamp Annotations
  - vi. The Symbols Library
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- vii. Measurement Tools
- viii. Assemble Parts
- ix. Automatically Generate an Item List
- x. Structure Edit Mode
- xi. Display Parts in the Structure Edit Viewing Area
- xii. Advanced sBOM Editing Tools
- xiii. Investigating Creo Illustrate Options

*Knowledge Check Questions*

**Module 7. Publishing and Exporting 3-D Illustrations**

- i. Publishing C3DI Files
- ii. Accessing the Save Figure As Menu

*Knowledge Check Questions*

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