

Creo Elements/Pro Data Management with Windchill PDMLink 10.0

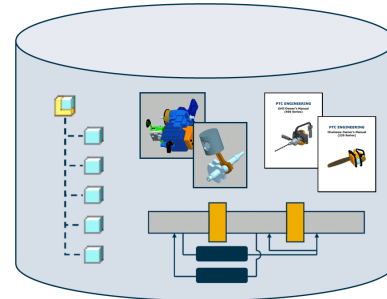
Overview

Course Code	TRN-3153-T
Course Length	1 Day

After completing this course, you will be prepared to complete basic Windchill PDMLink CAD data management tasks and activities, as well as having a better understanding of Windchill CAD data management processes.

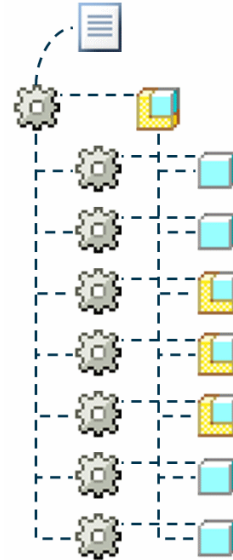
In this course, you will learn key capabilities and features of Windchill PDMLink CAD Data Management and how to use Windchill PDMLink to manage Creo Elements/Pro design information. Specifically, you will focus on the day-to-day data management tasks required by the Creo Elements/Pro user community, including how to use the CAD data structure to associate and build the product structure. You will also learn how to use Windchill to perform basic PDM functions on Creo Elements/Pro CAD Documents and their associated product structure objects. The course materials are designed to replace modules 4, 5, and 6 of the Introduction to Windchill PDMLink 10.0 course or all modules of Windchill PDMLink 10.0 – CAD Data Management course .

At the end of each module, you will complete a skills assessment. The questions are used to help reinforce your understanding of the module topics and form the basis for review of any topics, if necessary.



Course Objectives

- Locate design information
- View design information
- Create new designs and share design information
- Modify and manage existing design information
- Understand Windchill parts and their association to CAD documents
- Understand file relationships and dependencies
- Manage family tables
- Use workspace frames



Prerequisites

- Working knowledge of Creo Elements/Pro
- Completion of any one of the following:
 - TRN-3145 Introduction to Windchill PDMLink 10.0 for Light Users
 - TRN-3146 Introduction to Windchill PDMLink 10.0 for Heavy Users
 - TRN-3147 Introduction to Windchill PDMLink 10.0 for the Implementation Team

Audience

- This course is intended for end users and System Administrators
 - The topics in this course are also available as Web-based training courses
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Agenda

Day 1

Module	1	Getting Started with Creo Elements/Pro Data Management
Module	2	Initiating New Designs and Sharing Design Data
Module	3	Modifying and Managing Design Data
Module	4	Understanding File Relationships and Dependencies
Module	5	Managing Family Tables
Module	6	Managing CAD Data

Course Content

Module 1. Getting Started with Creo Elements/Pro Data Management

- i. Creo Elements/Pro and Windchill Connectivity
- ii. Windchill Integration
- iii. Windchill Integration: Creo Elements/Pro Menus
- iv. Windchill Integration: Model Tree
- v. Windchill Integration: Folder Browser
- vi. Windchill Integration: Search
- vii. Windchill Integration: Embedded Browser
- viii. Windchill Integration: Event Manager
- ix. Registering a Windchill Server
- x. Introduction to the Workspace
- xi. Workspace Layout
- xii. Creating Workspaces
- xiii. Changing the Active Workspace
- xiv. Working with Workspaces
- xv. Deleting Workspaces
- xvi. Changing Workspace Table Views
- xvii. Customizing Workspace Table Views
- xviii. Workspace Preferences: General
- xix. Workspace Preferences: Document Configuration Specification
- xx. Workspace Preferences: Part Configuration Specification
- xxi. Locating Design Information with Creo Elements/Pro
- xxii. Searching for Design Information
- xxiii. Browsing for Design Information
- xxiv. Viewing CAD Document Information
- xxv. Viewing CAD Document Content
- xxvi. Exposing PDM Information using Creo Elements/Pro File Open
- xxvii. Exposing PDM Information in the Model Tree
- xxviii. Duplicate Names

Knowledge Check Questions

Module 2. Initiating New Designs and Sharing Design Data

- i. Introduction to Windchill Parts
 - ii. Sharing Creo Elements/Pro Designs
 - iii. Introducing New Designs to the Workspace
 - iv. Using CAD Templates in New Designs
 - v. Initiating New Designs Using New CAD Document
 - vi. Workspace Save As
 - vii. Introducing New Designs to the Commonsplace
 - viii. Understanding Check In
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- ix. Commonsense Save As
- x. Introducing New WTParts
- xi. Generating Viewables
- xii. Creating Representations
- xiii. Monitoring Publish Jobs
- xiv. Adding CAD Documents to the Workspace
- xv. Removing CAD Documents from the Workspace
- xvi. Understanding Workspace Architecture
- xvii. Understanding Save, Upload, and Check In
- xviii. Understanding Web Browser Access to the Workspace
- xix. Naming: Creo Elements/Pro New Object
- xx. Naming and Numbering Design Documents
- xxi. Naming and Numbering Policy Example
- xxii. Parameter to Attribute Mapping

Knowledge Check Questions

Module 3. Modifying and Managing Design Data

- i. Understanding Workspace Objects
- ii. Modifying Creo Elements/Pro Designs
- iii. Modification Process: Check Out a CAD Document
- iv. Modification Process: Modify a CAD Document
- v. Modification Process: Check In a CAD Document
- vi. Methods of Checking Out CAD Documents
- vii. Check Out of the Non-Latest Iteration
- viii. Understanding Check Out Status and Options
- ix. Understanding Download and Check Out
- x. Understanding Advanced Check In Options
- xi. Canceling Modifications
- xii. Workspace Status
- xiii. Locking CAD Documents in the Workspace
- xiv. Understanding Gathering Parts
- xv. Using Library Parts in Assemblies
- xvi. Associating WTParts with CAD Documents
- xvii. Renaming CAD Documents
- xviii. Renaming WTParts
- xix. Moving Design Documents
- xx. Revising Design Documents
- xxi. Revising from the Non-Latest Version
- xxii. Revise and Check Out Action
- xxiii. Modifying CAD Document Attributes
- xxiv. Creo Elements/Pro Asynchronous Mode

Knowledge Check Questions

Module 4. Understanding File Relationships and Dependencies

- i. Managing Dependencies and Links
- ii. WTPart CAD Document Links
- iii. WTPart CAD Document Links Example
- iv. Sample Creo Elements/Pro Dependencies
- v. CAD Document Fundamentals for Models
- vi. CAD Document Fundamentals for Drawings
- vii. Viewing Dependency Information in Windchill
- viii. Processing Dependencies
- ix. Managing Secondary Content Files with Windchill
- x. Downloading Non-Latest Configurations
- xi. Using Creo Elements/Pro to Compare PDM Model Versions
- xii. Intelligent Hyperlinks within a Drawing Revision Block
- xiii. Typical Data Management Problems
- xiv. Regeneration Failures
- xv. Incomplete Objects
- xvi. Resolving Incomplete Objects

*Knowledge Check Questions***Module 5. Managing Family Tables**

- i. Family Table Overview
- ii. Viewing Family Table Information
- iii. Creating Family Tables
- iv. Managing Family Tables
- v. Generic Modification Matrix
- vi. Individual Instance Modification Matrix
- vii. Modifying Family Tables
- viii. Modify Instance Parameters/Attributes in a Workspace
- ix. Saving Family Table Items as New Items

*Knowledge Check Questions***Module 6. Managing CAD Data**

- i. Structure Compare
 - ii. Structure Compare Browser Layout
 - iii. Enterprise Top-Down Design
 - iv. Introduction to Workspace Frames
 - v. Accessing Workspace Frames
 - vi. Workspace Frames Details
 - vii. Updating and Synchronizing Workspace Objects
 - viii. Updating CAD Documents in the Workspace
 - ix. Synchronizing Objects in the Workspace
 - x. Importing and Exporting CAD Data
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- xi. Importing CAD Data
- xii. Exporting CAD Data
- xiii. Retrieving Simplified Representations On-the-Fly
- xiv. Using Flexible Components
- xv. Heterogeneous Design In Context (HDIC)

Knowledge Check Questions
