

# Windchill ProjectLink 9.0/9.1 Curriculum Guide

NOTE: For a graphical depiction of the curriculum based on job role, please visit this page:  
[http://www.ptc.com/services/edserv/learning/paths/ptc/pjl\\_90.htm](http://www.ptc.com/services/edserv/learning/paths/ptc/pjl_90.htm)

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## Live Classroom Curriculum Guide

- ! Introduction to Windchill ProjectLink 9.0/9.1
  - ! Introduction to ProductView 9.0
  - ! Windchill 9.0/9.1 System Administration
  - ! Windchill 9.0 Workflow Administration
  - ! Introduction to ProductView MCAD Professional 9.1
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## Introduction to Windchill ProjectLink 9.0/9.1

Course Code	TRN-2138-T
Course Length	1 Day

### Overview

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In this course, you will learn how to participate in and manage projects using Windchill ProjectLink 9.0. You will learn how to access and navigate the Windchill ProjectLink interface. This includes navigating and using your personal environment, the project environment, and the visualization environment. You will also learn how to manage document information, CAD information, and assigned tasks. You will also learn how to create and manage projects, which includes planning activities and milestones, assigning the project team, and setting up the folder storage structure. You will learn how to communicate with other team members using Windchill ProjectLink's collaboration tools. Lastly, you will learn how to create a program consisting of multiple projects, and a plan for managing the program.

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.

### Prerequisites

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- ! Basic browser and web navigation skills.
- ! Basic understanding of Project Management processes and deliverables.

### Audience

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This course is intended for both project participants and project managers using the ProjectLink application.

### Topics

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- ! Introduction to Project Management and the ProjectLink Environment
  - ! Create folders and set access controls
  - ! Create links and upload files
  - ! Create documents from templates
  - ! Create documents from Microsoft applications
  - ! Create parts and product structures
  - ! Mark up parts
  - ! Communicate and collaborate with team members
  - ! Schedule and host meetings
  - ! Record meeting minutes
  - ! Route objects and assign tasks
  - ! Update activities and deliverables
  - ! Complete tasks
  - ! Generate reports
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- ! Assign and resolve action items
  - ! Design and implement projects
  - ! Plan and create projects
  - ! Establish teams and resources
  - ! Implement project plans
  - ! Import project plans using Microsoft Project
  - ! Create and manage project deliverables
  - ! Control project states
  - ! Monitor and control project status
  - ! Manage project objects
  - ! Create and implement a program containing multiple projects
  - ! Windchill 9.1 Enhancements
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## Agenda

### Day 1

Module 1	Application Orientation
Module 2	Creating and Managing the Project Environment
Module 3	Information Management
Module 4	Engineering Data Management
Module 5	Project Process Participation
Module 6	Communication and Collaboration
Module 7	Program and Project Networks

## Introduction to ProductView 9.0

Course Code	TRN-2140-T
Course Length	1 Day

### Overview

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In this course, you will learn about ProductView tools and techniques that are most commonly used. Using the ProductView Standard client, you will learn how to locate and view models in Windchill and Pro/INTRALINK PDM solutions.

Through exercises, you will learn to use the ProductView Standard interface to orient and interrogate 3-D models, explode components, measure 2-D and 3-D geometry on models, section models, as well as annotate and mark-up models. You will also learn how to query model data and how to collaborate with other users regardless of physical location.

At the end of the course, a Pro/FICIENCY skills assessment will be used to reinforce your understanding of the course topics.

### Prerequisites

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- ! Introduction to Windchill PDMLink 9.0 or
- ! Introduction to Windchill ProjectLink 9.0

### Audience

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This course is intended for all enterprise data users that use the ProductView 9.0 standard client.

### Topics

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- ! Introduction to visualization
  - ! Orienting design models
  - ! Changing model appearances
  - ! Exploding model components
  - ! Introduction to construction geometry
  - ! Displaying dimensions
  - ! Measuring distances
  - ! Introduction to sectioning models
  - ! Introduction to annotations and mark-ups
  - ! Querying data
  - ! Viewing drawings
  - ! Collaborate in real-time online
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## Agenda

### Day 1

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Module 1	Introduction to Visualization
Module 2	Introduction to ProductView
Module 3	Collaborating Online with ProductView
Module 4	Creating Construction Geometry
Module 5	Creating Annotations
Module 6	Sectioning Models

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## Windchill 9.0/9.1 System Administration

Course Code	TRN-2141-T
Course Length	3 Days

### Overview

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In this course, you will learn how to install and configure Windchill system components, including PDMLink and ProjectLink. You will learn how to perform routine Windchill system administration tasks including how to shut down and start Windchill services, conduct performance testing, and tune up Windchill components for performance. You will also learn how to manage a distributed system environment and plan and run basic backup and recovery procedures. Other topics include managing system performance with Oracle 10g, managing memory and CPU allocation, troubleshooting background queues, and monitoring firewall activity and security.

Note: Due to the subject matter of this class, simulated software is used for Windchill installation to provide an accurate, effective, and efficient training experience that could not otherwise be duplicated in a standard classroom environment.

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

After completing the course, you will be prepared to complete basic Windchill PDMLink tasks and activities, as well as have a better understanding of the Windchill PDMLink system implementation at your company.

### Prerequisites

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- ! Familiarity with the Windchill PDMLink 9.0/9.1 or Windchill ProjectLink 9.0/9.1 user interface.
- ! Familiarity with the Windows command prompt and the ability to form and execute basic SQL statements.

### Audience

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This training course is intended for System Administrators and Application Developers.

### Topics

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- ! Identifying Windchill System Components
  - ! Installing Windchill Components
  - ! Performance Testing
  - ! External File Storage
  - ! Data Replication
  - ! Workflow Performance Tuning
  - ! Database Performance Tuning
  - ! System Backup and Recovery
  - ! Windchill Infrastructure Security
  - ! Windchill 9.1 System Administration Enhancements
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## Agenda

### Day 1

Module 1	Identifying Windchill System Components
Module 2	Installing Windchill Components
Module 3	Managing Windchill Services
Module 4	Performance Testing

### Day 2

Module 5	External File Storage
Module 6	Data Replication
Module 7	Tuning Application Server
Module 8	Tuning Workflow Processes

### Day 3

Module 9	Oracle Performance Tuning
Module 10	Windchill Backup and Recovery
Module 11	Windchill Infrastructure Security

## Windchill 9.0 Workflow Administration

Course Code	TRN-2143-T
Course Length	2 Days

### Overview

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In this course, you will learn Windchill Workflow features and how to design, configure and test workflow processes.

You will complete Pro/FICIENCY skills assessment questions for each module. These questions are used to help reinforce your understanding of the course topics and form the basis for daily review sessions.

After completing the course, you will be able to plan and configure workflow automation features to support your company's business processes.

### Prerequisites

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- ! Successful completion of Introduction to Windchill PDMLink 9.0, Introduction to Windchill ProjectLink 9.0, or Introduction to Arbortext Content Manager 9.0.
- ! Successful completion of Windchill PDMLink 9.0 Business Administration, Windchill ProjectLink 9.0 Business Administration, or Arbortext Content Manager 9.0 Business Administration.

### Audience

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This training course is intended for Windchill business administrators, and application developers.

### Topics

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- ! Using the Workflow Process Editor, Process Administrator, and Workflow Administrator to manage and maintain workflow templates and processes.
  - ! Creating manual and automated workflow activities.
  - ! Controlling process flow manually, administratively, and automatically.
  - ! Creating sub-processes and block processes.
  - ! Synchronizing workflows with other Windchill events and processes.
  - ! Configuring automated tasks in workflow processes.
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## Agenda

### Day 1

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Module 1	Using Workflow Tools
Module 2	Defining Manual Tasks
Module 3	Using Task Forms

### Day 2

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Module 4	Controlling Process Flow
Module 5	Simplifying Complex Templates
Module 6	Automating Tasks

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## Introduction to ProductView MCAD Professional 9.1

Course Code	TRN-2206-T
Course Length	1 Day

### Overview

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In this course, you will learn about ProductView and its role as a visualization solution for Product Data Management systems. You will learn how to visualize products and navigate through or query 3-D models. You will also learn how to deconstruct models to view how components fit together. Finally, you will learn how to create annotations to communicate design ideas and problems.

At the end of the course, a Pro/FICIENCY skills assessment will be used to reinforce your understanding of the course topics.

### Prerequisites

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- ! Introduction to Windchill PDMLink 9.0/9.1 or
- ! Introduction to Windchill ProjectLink 9.0/9.1

### Audience

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This course is intended for all enterprise data users that use the ProductView MCAD Professional client.

### Topics

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- ! Introduction to visualization
  - ! Introduction to the ProductView user interface
  - ! Navigating and orienting 3-D models
  - ! Querying data and searching for model components
  - ! Changing model appearances
  - ! Exploding model components
  - ! Sectioning models
  - ! Introduction to annotations and mark-ups
  - ! Measuring distances and displaying dimensions
  - ! Introduction to construction geometry
  - ! Working with drawings, images, and documents
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## Agenda

### Day 1

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Module 1	Introduction to Visualization
Module 2	Getting Around in ProductView
Module 3	Viewing and Interrogating a ProductView Model
Module 4	Deconstructing a ProductView Model
Module 5	Annotating a ProductView Model
Module 6	Working with Construction Geometry
Module 7	Working with Product Structure and Model Parts
Module 8	Working with Drawings, Images, and Documents

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## Windchill ProjectLink 9.0 - Application Orientation

Course Code	SAB-CEK2499
Course Length	1 Hour

### Overview

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In this course, you will learn the capabilities, features, and terminology of Windchill ProjectLink. You will also learn about the ProjectLink user interface and how to search for information. Finally, you will learn about accessing Help and setting your preferences.

After you finish this course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course, you will be able to:

- ! Describe Windchill ProjectLink Users.
- ! Describe Windchill ProjectLink capabilities.
- ! Log on to Windchill ProjectLink.
- ! Explore the Windchill ProjectLink environment.
- ! Search for information.
- ! Access Help features.
- ! Set user preferences.

### Prerequisites

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- ! Basic browser and Web navigation skills.
- ! Basic understanding of product development processes and deliverables.

### Audience

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This course is intended for any user that will create, modify, or read data stored within Windchill ProjectLink.

### Topics

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- ! Introduction to Windchill ProjectLink
  - ! Accessing and Exploring Windchill ProjectLink
  - ! Searching for Information
  - ! Accessing Help
  - ! Setting User Preferences
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## Table of Contents

Module 1	Application Orientation
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## Windchill ProjectLink 9.0 - Creating and Managing the Project Environment

Course Code	SAB-CEK2500
Course Length	1 Hour

### Overview

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In this course, you will learn how to function as a project manager within Windchill ProjectLink. You will learn about planning and creating projects, which means that you will create activities and milestones that define the project timeline. You will assign ownership responsibility of the activities and milestones to your project's team members. You also design a project storage structure, as well as configure access controls to that structure, so that only those with project roles that need access can view the folder contents. Finally, you will learn how to maintain the project from start to completion.

After you finish this course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics. After completing this course, you will be able to:

- ! Plan projects in ProjectLink.
- ! Create projects in ProjectLink.
- ! Create activities, milestones, and summary activities.
- ! Create and manage project storage and access controls.
- ! Manage projects in ProjectLink.

### Prerequisites

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- ! Browser and Web navigation skills.
- ! Understanding of product development processes and deliverables.
- ! CAB-CEK2499 Windchill ProjectLink 8.0 - Application Orientation or its equivalent.

### Audience

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This course is intended for any user that will manage projects within Windchill ProjectLink.

### Topics

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- ! Planning and Creating Projects
  - ! Creating Activities, Milestones, and Summary Activities
  - ! Creating and Managing Project Storage and Access Controls
  - ! Managing Projects
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## Table of Contents

Module 1	Creating and Managing the Project Environment
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## Windchill ProjectLink 9.0 - Information Management

Course Code	SAB-CEK2501
Course Length	1 Hour

### Overview

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In this course, you will learn how to manage documents and links in ProjectLink. While project managers need to know these skills, it is also critical for project participants to know these skills. Hence, you will learn how to create documents in the ProjectLink folder structure. You will also learn document management techniques, such as check out and check in.

After you finish this course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics. After completing this course, you will be able to:

- ! Create documents and links.
- ! Use desktop integration.
- ! Associate documents to deliverables.

### Prerequisites

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- ! Browser and Web navigation skills.
- ! Understanding of product development processes and deliverables.
- ! CAB-CEK2499 Windchill ProjectLink 8.0 - Application Orientation or its equivalent.

### Audience

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This course is intended for any user that will create and modify documents within Windchill ProjectLink.

### Topics

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- ! Creating Documents using Desktop Integration and ProjectLink.
  - ! Associating Documents to the Project Plan.
  - ! Creating Links.
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## Table of Contents

Module 1	Information Management
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## Windchill ProjectLink 9.0 - CAD Data Management

Course Code	SAB-CEK2502
Course Length	1 Hour

### Overview

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In this course, you will learn how to manage CAD information, including CAD documents and parts. You will learn how to create parts, part structures, and use workspaces and workgroup managers to integrate ProjectLink with your CAD application. You will learn how to upload, download, and modify CAD information in ProjectLink.

After you finish this course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course, you will be able to:

- ! Create parts and CAD documents.
- ! Create and manipulate product structures.
- ! Load CAD files.

### Prerequisites

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- ! Browser and Web navigation skills.
- ! Understanding of product development processes and deliverables.
- ! CAB-CEK2501 Windchill ProjectLink 9.0 – Information Management or its equivalent.

### Audience

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This course is intended for any user that will create and modify CAD data or product structures within Windchill ProjectLink.

### Topics

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- ! Creating Parts.
  - ! Creating CAD Documents.
  - ! Creating Product Structures.
  - ! Loading CAD files.
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## Table of Contents

Module 1	CAD Data Management
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## Windchill ProjectLink 9.0 - Project Process Participation

Course Code	SAB-CEK2503
Course Length	1 Hour

### Overview

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In this course, you will learn how to complete your assigned tasks and how to manage your work. In many cases when you start a task, you may not complete it in one ProjectLink session, so you will also learn how to update your tasks. By updating your tasks, you let the project manager and other team members know your progress by communicating a color-coded status, a completion percentage, and an optional description. You will also learn to manage your work by creating bookmarks to frequently opened pages. You will learn how to upload files to your own private notebook in ProjectLink. You will also learn about subscribing to objects in ProjectLink, so that you are notified whenever a specific event occurs, relating to that object. Finally, you will learn about running reports on your work and your team's work.

After you finish this course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course, you will be able to:

- ! Create and complete task assignments.
- ! Manage your work.

### Prerequisites

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- ! Browser and Web navigation skills.
- ! Understanding of product development processes and deliverables.
- ! CAB-CEK2500 Windchill ProjectLink 9.0 – Creating and Managing the Project Environment.

### Audience

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This course is intended for any user that will work on a Project Plan or complete activities within Windchill ProjectLink.

### Topics

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- ! Complete Tasks
  - ! Route Objects
  - ! Manage your notebook
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## Table of Contents

Module 1	Project Process Participation
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## Windchill ProjectLink 9.0 - Communication and Collaboration

Course Code	SAB-CEK2504
Course Length	1 Hour

### Overview

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In this course, you will learn how to use ProjectLink's communication and collaboration tools. ProjectLink's communication tools enable you to discuss projects or specific object topics. These are important because unlike e-mail, they enable everyone to read and reply to questions or ideas. If you have a specific question or idea for a small group of members, ProjectLink also has a specific link to e-mail pages to project participants. Finally, you can use ProductView to host online collaborative meetings, where participants can see and update changes to product models.

After you finish this course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course, you will be able to:

- ! Communicate in discussion forums.
- ! E-mail ProjectLink pages.
- ! Conduct meetings.

### Prerequisites

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- ! Browser and Web navigation skills.
- ! Understanding of product development processes and deliverables.
- ! CAB-CEK2499 Windchill ProjectLink 9.0 – Application Orientation.

### Audience

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This course is intended for any user that participates in meetings or discussions within Windchill ProjectLink.

### Topics

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- ! Create and attend meetings.
  - ! Create and respond to discussions.
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## Table of Contents

Module 1	Communication and Collaboration
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## Windchill ProjectLink 9.0 - Program and Projects Networks Management

Course Code	SAB-CEK2505
Course Length	1 Hour

### Overview

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In this course, you will learn how to use ProjectLink's context network, which enables you to easily search and navigate multiple projects. The context network is used most frequently in program contexts, so you will also learn the capabilities and usage of ProjectLink programs. This knowledge will enable you to search and navigate related projects and programs with ease.

After you finish this course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course, you will be able to:

- ! Describe the differences between a program and a project context.
- ! Create a network of contexts.
- ! Navigate contexts in a network.
- ! Search multiple contexts in a network.

### Prerequisites

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- ! Browser and Web navigation skills.
- ! Understanding of product development processes and deliverables.
- ! CAB-CEK2500 Windchill ProjectLink 9.0 – Creating and Managing the Project Environment.

### Audience

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This course is intended for users who manage multiple projects within Windchill ProjectLink.

### Topics

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- ! Create a context network.
  - ! Add folders, links, and contexts to the context network.
  - ! Navigate the context network.
  - ! Search the context network.
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## Table of Contents

Module 1	Program and Project Networks
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## Windchill ProjectLink 9.0/9.1 - Windchill 9.1 Enhancements and New Functionality

Course Code	SAB-CEK2933
Course Length	1 Hour

### Overview

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In this module, you learn about Windchill 9.1 enhancements. After completing this module, you should be well prepared to configure some of the latest enhancements to your Windchill Application.

After completing this course, you will be able to:

- ! Use Windchill table enhancements.
- ! Use multi-object manipulation capability.
- ! Use packages.
- ! Modify non-latest objects.
- ! Identify security labels.

### Prerequisites

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- ! Basic browser and Web navigation skills
- ! Basic understanding of product development processes and deliverables
- ! SAB-CEK2499 Windchill ProjectLink 9.0 – Application Orientation

### Audience

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This course is intended for any user that uses Windchill PDMLink 9.1.

### Topics

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- ! Use Windchill table enhancements.
  - ! Use multi-object manipulation capability.
  - ! Use packages.
  - ! Modify non-latest objects.
  - ! Identify security labels.
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## Table of Contents

Module 1	Windchill 9.1 Enhancements
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## ProductView 9.0 – Application Orientation

Course Code	SAB-CEK2506
Course Length	3 Hours

### Overview

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ProductView is the primary means to visualize data within PDMLink, ProjectLink, and Pro/INTRALINK. In this course, you will learn about the capabilities of the ProductView 9.0 standard client. You will learn how to launch ProductView from PDMLink though this same skill can also be applied to ProjectLink or Pro/INTRALINK. You will also learn how to use ProductView's capabilities on 3-D models and 2-D drawings. Finally, you will learn how to collaborate online in real-time using ProductView.

After you finish this course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course, you will be able to:

- ! Identify visualization concepts.
- ! Define enterprise visualization use-case scenarios.
- ! Identify components in PTC's visualization system.
- ! Define the visualization workflow.
- ! Start ProductView from PDMLink.
- ! Identify components of the ProductView interface.
- ! Identify readable file types.
- ! Identify Product's basic and advanced capabilities.
- ! Apply ProductView's basic capabilities on CAD models and drawings.
- ! Define ProductView's collaboration methodology.
- ! Start an "ad hoc" collaboration session.
- ! Manage a collaboration session.

### Prerequisites

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- ! Basic browser and Web navigation skills.
- ! Basic understanding of product development processes and deliverables.
- ! Introduction to Windchill PDMLink 9.0 or
- ! Introduction to Windchill ProjectLink 9.0

### Audience

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This course is intended for any user that will view data stored within Windchill ProjectLink, Windchill PDMLink, or Pro/INTRALINK using the ProductView standard client.

### Topics

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- ! Identifying visualization concepts
  - ! Defining enterprise visualization use-case scenarios
  - ! Identifying components in PTC's visualization system
  - ! Defining the visualization workflow
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- ! Starting ProductView from PDMLink
  - ! Identifying components of the ProductView interface
  - ! Identifying readable file types
  - ! Identifying Product's basic and advanced capabilities
  - ! Applying ProductView's basic capabilities on CAD models and drawings
  - ! Defining ProductView's collaboration methodology
  - ! Starting an "ad hoc" collaboration session
  - ! Managing a collaboration session
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## Table of Contents

Module 1	Introduction to Visualization
Module 2	Introduction to ProductView
Module 3	Collaborating Online with ProductView

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## ProductView 9.0 - Annotations and Sectioning

Course Code	SAB-CEK2507
Course Length	3 Hours

### Overview

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In this course, you will learn several different methods to create construction geometry. Construction geometry is useful when measuring distances, sectioning models, creating mark-ups, and creating constraints. You will learn how to create annotation sets within a PDM system, such as Windchill PDMLink or Windchill ProjectLink. You will also learn how to retrieve the annotation sets from the PDM system. Creating annotations is an important method for communicating design intent and design changes throughout the enterprise. Finally, you will learn advanced sectioning methods in ProductView. These methods enable you to easily create cross-sections of your models so that you can visualize internal components as well as profiles of the cut components.

After you finish this course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course, you will be able to:

- ! Create construction points, axes, planes, and orientation frames.
- ! Set the pick target.
- ! Create annotation sets.
- ! Save annotation sets to a PDM system.
- ! Retrieve annotation sets from a PDM system.
- ! Section an assembly.
- ! Manipulate the section view.
- ! Set specific components to be sectioned.
- ! Create quarter-cut sections.

### Prerequisites

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- ! Basic browser and Web navigation skills.
- ! Basic understanding of product development processes and deliverables.
- ! SAB-CEK2506 ProductView 9.0 – Application Orientation or its equivalent.

### Audience

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This course is intended for any user that needs a more complete understanding of sectioning models and/or creating annotations.

### Topics

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- ! Creating construction points, axes, planes, and orientation frames
  - ! Setting the pick target
  - ! Creating annotation sets
  - ! Saving annotation sets to a PDM system
  - ! Retrieving annotation sets from a PDM system
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- ! Sectioning an assembly
  - ! Manipulating the section view
  - ! Setting specific components to be sectioned
  - ! Creating quarter-cut sections
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## Table of Contents

Module 1	Creating Construction Geometry
Module 2	Creating Annotations
Module 3	Sectioning Models

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## Windchill 9.0/9.1 System Administration

Course Code	SAB-CEK2728
Course Length	11 Hours

### Overview

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In this course, you will learn how to install and configure Windchill system components, including PDMLink and ProjectLink. You will learn how to perform routine Windchill system administration tasks including how to shut down and start Windchill services, conduct performance testing, and tune up Windchill components for performance. You will also learn how to manage a distributed system environment and plan and run basic backup and recovery procedures. Other topics include managing system performance with Oracle 10g, managing memory and CPU allocation, troubleshooting background queues, and monitoring firewall activity and security.

Note: Due to the subject matter of this class, simulated software is used for Windchill installation to provide an accurate, effective, and efficient training experience that could not otherwise be duplicated in a standard classroom environment.

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

After completing the course, you will be prepared to complete basic Windchill PDMLink tasks and activities, as well as have a better understanding of the Windchill PDMLink system implementation at your company.

### Prerequisites

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- ! Familiarity with the Windchill PDMLink 9.0/9.1 or Windchill ProjectLink 9.0/9.1 user interface.
- ! Familiarity with the Windows command prompt and the ability to form and execute basic SQL statements.

### Audience

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This training course is intended for System Administrators and Application Developers.

### Topics

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- ! Identifying Windchill System Components
  - ! Installing Windchill Components
  - ! Performance Testing
  - ! External File Storage
  - ! Data Replication
  - ! Workflow Performance Tuning
  - ! Database Performance Tuning
  - ! System Backup and Recovery
  - ! Windchill Infrastructure Security
  - ! Windchill 9.1 System Administration Enhancements
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## Table of Contents

Module 1	Identifying Windchill System Components
Module 2	Installing Windchill Components
Module 3	Managing Windchill Services
Module 4	Performance Testing
Module 5	External File Storage
Module 6	Data Replication
Module 7	Tuning Application Server
Module 8	Tuning Workflow Processes
Module 9	Oracle Performance Tuning
Module 10	Windchill Backup and Recovery
Module 11	Windchill Infrastructure Security
Appendix A	Windchill 9.1 System Administration Enhancements

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## Introduction to ProductView MCAD Professional 9.1

Course Code	SAB-CEK2919
Course Length	8 Hours

### Overview

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In this course, you will learn about ProductView and its role as a visualization solution for Product Data Management systems. You will learn how to visualize products and navigate through or query 3-D models. You will also learn how to deconstruct models to view how components fit together. Finally, you will learn how to create annotations to communicate design ideas and problems.

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.

### Prerequisites

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- ! Introduction to Windchill PDMLink 9.0/9.1 or
- ! Introduction to Windchill ProjectLink 9.0/9.1

### Audience

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This course is intended for all enterprise data users that use the ProductView MCAD Professional client.

### Topics

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- ! Introduction to visualization
  - ! Introduction to the ProductView user interface
  - ! Navigating and orienting 3-D models
  - ! Querying data and searching for model components
  - ! Changing model appearances
  - ! Exploding model components
  - ! Sectioning models
  - ! Introduction to annotations and mark-ups
  - ! Measuring distances and displaying dimensions
  - ! Introduction to construction geometry
  - ! Working with drawings, images, and documents
  - ! Share and collaborate using ProductView files
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## Table of Contents

Module 1	Introduction to Visualization
Module 2	Getting Around in ProductView
Module 3	Viewing and Interrogating a ProductView Model
Module 4	Deconstructing a ProductView Model
Module 5	Annotating a ProductView Model
Module 6	Working with Construction Geometry
Module 7	Working with Product Structure and Model Parts
Module 8	Working with Drawings, Images, and Documents

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## Windchill ProjectLink 9.0 and Windchill PDMLink 9.0 Collaboration

Course Code	SAB-CEK2379
Course Length	3 Hours

### Overview

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In this Windchill ProjectLink 9.0 and Windchill PDMLink 9.0 Collaboration course, you will explore concepts that will help you understand the advantages of the integrated Windchill PDMLink and Windchill ProjectLink environment. You will also explore the environment and learn how to send Windchill PDMLink data to a project, and how to use Windchill ProjectLink data within a Windchill PDMLink context. Also, you will learn how to use context networks to share data and enable searches across application contexts in the same network.

At the end of each module you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course you will be able to understand and navigate within the integrated environment, use Windchill PDMLink data in Windchill ProjectLink, and use Windchill ProjectLink data in Windchill PDMLink.

### Prerequisites

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- ! T2136-090 Introduction to Windchill ProjectLink 9.0 or the WBT equivalents.
- ! T2138-090 Introduction to Windchill PDMLink 9.0 or the WBT equivalents.

### Audience

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The target audience for this course consists of users that will be using an integrated environment and already understand how to use both Windchill PDMLink 9.0 and Windchill ProjectLink 9.0.

### Topics

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- ! Introduction to the Windchill ProjectLink and Windchill PDMLink Integrated Environment.
  - ! Using Windchill PDMLink data in a Windchill ProjectLink Project.
  - ! Using Windchill ProjectLink Project Data in Windchill PDMLink.
-

## Table of Contents

Module 1	Introduction to the Windchill ProjectLink and Windchill PDMLink Integrated Environment
Module 2	Using Windchill PDMLink data in a Windchill ProjectLink Project
Module 3	Using Windchill ProjectLink Project Data in Windchill PDMLink

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## ECAD Data Management using Windchill PDMLink 9.0

Course Code	SAB-CEK2382
Course Length	2.5 Hours

### Overview

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This Web-based training will explore Workgroup Manager for ECAD, an optional Windchill add-on for ECAD data management. Workgroup Manager for ECAD is a Java application that communicates with the Windchill server to access or store electronic design data. It provides an ECAD-application integration to the Windchill PDMLink and Windchill ProjectLink. The Workgroup Manager for ECAD enables Windchill users to directly manage engineering information and create structures and assemblies in an integrated PDM environment.

In this course, you will learn how to build enterprise-level product information by creating association links between ECAD objects (boards, assemblies, schematics, and file groups) and Windchill objects.

You will also learn about general tasks, such as searching, checking out, updating, and checking in the ECAD data. You will learn how to perform the client-side Workgroup Manager setup.

At the end of the course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics

After completing this course you will be able to understand the main features of the Workgroup Manager, configure Workgroup Manager, and manage ECAD data using the Workgroup Manager for ECAD.

### Prerequisites

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- ! T2136-080 Introduction to Windchill PDMLink 9.0 or the WBT equivalents
- ! Working knowledge of any ECAD application, such as Cadence

### Audience

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The target audience for this course consists of users who will be manipulating the ECAD data using the Workgroup Manager for ECAD, and already understand how to use Windchill PDMLink 9.0 or ProjectLink 9.0.

### Topics

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- ! Understanding the general capabilities of Windchill Workgroup Manager for ECAD.
  - ! Learning about the key benefits of Workgroup Manager for ECAD.
  - ! Reviewing InterComm integration with Workgroup Manager
  - ! Identifying the supported ECAD applications
  - ! Completing the client side configuration of the Workgroup Manager
  - ! Accessing Windchill from the Workgroup Manager
  - ! Searching for ECAD data stored in Windchill database
  - ! Storing the ECAD data in Windchill PDMLink or ProjectLink
  - ! Modifying the ECAD data in Windchill PDMLink
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- ! Managing the local cache
  - ! Managing user preferences
  - ! Identifying hooks
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## Table of Contents

Module 1	ECAD Data Management Overview
Module 2	Installing and Configuring Workgroup Manager for ECAD
Module 3	Managing ECAD Data

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## ECAD Visualization for Windchill 9.1

Course Code	SAB-CEK2383
Course Length	3 Hours

### Overview

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This Web-based training class demonstrates the key capabilities and features of the Windchill ECAD visualization. In this course, you will learn various data manipulation tasks such as searching, creating annotations, performing measurements, and cross-highlighting between board and schematic. You will also learn how to compare two versions of an ECAD design and explore the differences. Moreover, the data exchange between the InterComm viewables and native ECAD authoring tools is also discussed.

After completing this course, you will be able to understand the main features of the InterComm Expert, EDAConduit, ProductView ECAD Compare, and ProductView ECAD Validate.

At the end of the course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

### Prerequisites

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! None

### Audience

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The target audience for this course consists of users that will be manipulating ECAD data using the Windchill visualization capabilities for ECAD designs, and already understand how to use Windchill PDMLink 9.1 or ProjectLink 9.1.

### Topics

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- ! Electronic Product Development Process
  - ! InterComm Products Overview
  - ! Viewing Design Information in Windchill
  - ! InterComm Expert Features and Benefits
  - ! ProductView ECAD Compare Overview
  - ! ProductView ECAD Validate Overview
  - ! Comparing ECAD Designs
  - ! EDAconduit Overview
  - ! Features of EDAconduit
  - ! Cross-Highlighting between Expert and Allegro PCB
-

## Table of Contents

Module 1	Introduction to ECAD Visualization
Module 2	Viewing and Analyzing ECAD Designs
Module 3	Comparing ECAD Designs
Module 4	Exchanging Electronic Markups

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## Windchill ProjectLink 9.0 Business Administration

Course Code	SAB-CEK2384
Course Length	4 Hours

### Overview

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In this course, you will learn how to perform basic Windchill ProjectLink 9.0 administration tasks. You will learn how to plan and create user accounts, groups, and templates. Additionally, you will explore several Administrative Support tools.

At the end of the course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing the course, you will be well prepared to manage a basic Windchill ProjectLink implementation at your company.

### Prerequisites

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- ! T2138-090 Introduction to Windchill ProjectLink 9.0 or the WBT equivalents

### Audience

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This course is intended for business and system administrators that will manage an established ProjectLink server. Implementation team members, including user adoption team members, and those with general Windchill ProjectLink administration responsibilities will also benefit from taking this course.

### Topics

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- ! Introduction to ProjectLink Business Administration
  - ! Managing Principals
  - ! Managing Organization Templates
  - ! Administrative Support Tools
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## Table of Contents

Module 1	Introduction to ProjectLink Business Administration
Module 2	Managing Principals
Module 3	Managing Organization Templates
Module 4	Administrative Support Tools

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# Unigraphics Data Management using Windchill PDMLink 9.0

Course Code	SAB-CEK2385
Course Length	4 Hours

## Overview

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The Unigraphics Data Management using Windchill PDMLink 9.0 course provides the basic skills necessary for using the Workgroup Manager to manage Unigraphics NX design data. In this course, you will learn how about installation, configuration, and the basic operations to upload, check in, and check out NX design information from PDMLink. The course materials are designed to replace modules 4, 5 and 6 of the Introduction to Windchill PDMLink 9.0 course or all modules of Windchill PDMLink 9.0 – CAD Data Management course for students who must share and manage NX design data in PDMLink.

After finishing the course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course, you will be able to:

- ! Complete basic PDMLink tasks and activities.
- ! Manage Unigraphics design information.
- ! Have a better understanding of the PDMLink system implementation at your company.

## Prerequisites

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- ! SAB-CEK 2491-090 Windchill PDMLink 9.0 – Application Orientation.
- ! Working knowledge of Unigraphics NX.

## Audience

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This course is intended for End Users that generate design files in Unigraphics NX.

## Topics

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- ! Installing the Workgroup Manager.
  - ! Register Unigraphics with the Workgroup Manager.
  - ! Locating information.
  - ! Viewing information.
  - ! Initiating new designs and sharing design information.
  - ! Modifying and Managing Design information.
  - ! Windchill parts and the association to CAD documents.
  - ! Managing part families.
  - ! Managing the Workspace Environment.
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## Table of Contents

Module 1	Getting Started with Unigraphics Data Management
Module 2	Initiating New Designs and Sharing Design Information
Module 3	Modifying and Managing Design Information
Module 4	Managing Part Families

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## SolidWorks Data Management using Windchill PDMLink 9.0

Course Code	SAB-CEK2386
Course Length	4 Hours

### Overview

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The SolidWorks Data Management using Windchill PDMLink 9.0 course will provide the basic skills necessary for using the Workgroup Manager to manage SolidWorks design data. The course will cover installation, configuration, and the basic operations to upload, check in, and check out SolidWorks design information from PDMLink. The course materials are designed to replace Modules 4, 5, and 6 of the Introduction to Windchill PDMLink 9.0 course or all modules of Windchill PDMLink 9.0 – CAD Data Management course for students who must share and manage SolidWorks design data in PDMLink.

After finishing the course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course, you will be able to:

- ! Complete basic PDMLink tasks and activities.
- ! Manage SolidWorks design information.
- ! Have a better understanding of the PDMLink system implementation at your company.

### Prerequisites

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- ! SAB-CEK 2491-090 Windchill PDMLink 9.0 – Application Orientation.
- ! Working knowledge of SolidWorks.

### Audience

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This course is intended for End Users that generate design files in SolidWorks.

### Topics

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- ! Installing the Workgroup Manager.
  - ! Register SolidWorks with the Workgroup Manager.
  - ! Locating information.
  - ! Viewing information.
  - ! Initiating new designs and sharing design information.
  - ! Modifying and Managing Design information.
  - ! Windchill parts and the association to CAD documents.
  - ! Managing Design Tables.
  - ! Managing the Workspace Environment.
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## Table of Contents

Module 1	Getting Started with SolidWorks Data Management
Module 2	Initiating New Designs and Sharing Design Information
Module 3	Modifying and Managing Design Information
Module 4	Managing Design Tables

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## Pro/ENGINEER Data Management using Windchill PDMLink 9.0

Course Code	SAB-CEK2727
Course Length	8 Hours

### Overview

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In this course, you will learn key capabilities and features of PDMLink CAD Data Management and how to use PDMLink to manage Pro/ENGINEER design information. Specifically, you will focus on the day-to-day data management tasks required by the Pro/ENGINEER user community, including how to associate the Pro/ENGINEER CAD data structure to the eBOM. You will also learn how to use PDMLink to perform basic functions on the eBOM objects and Pro/ENGINEER CAD Documents.

You will complete Pro/FICIENCY skills assessment questions for each module. These questions are used to help reinforce your understanding of the course topics and form the basis for daily review sessions.

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

### Prerequisites

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- ! Working knowledge of Pro/ENGINEER Wildfire 3.0.

### Audience

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

### Topics

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- ! Introduction to the PDMLink Environment
  - ! Locating Information
  - ! Viewing Information
  - ! Getting Started with Pro/ENGINEER Data Management
  - ! Initiating New Designs and Sharing Design Information
  - ! Modifying and Managing Design Information
  - ! Understanding File Relationships and Dependencies
  - ! Managing Family Tables
  - ! Managing the Workspace Environment
  - ! Participating in Processes
  - ! Managing Your Work
-

## Table of Contents

Module 1	Getting Started with Pro/ENGINEER Data Management
Module 2	Initiating New Designs and Sharing Design Information
Module 3	Modifying and Managing Design Information
Module 4	Understanding File Relationships and Dependencies
Module 5	Managing Family Tables
Module 6	Managing the Workspace Environment

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## CATIA Data Management using Windchill PDMLink 9.0

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Course Code	SAB-CEK2835
Course Length	4 Hours

### Overview

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In this CATIA Data Management using Windchill PDMLink 9.0 course, you will learn the basic skills necessary for using the Workgroup Manager to manage CATIA design data. You will learn about installation, configuration, and the basic operations to upload, check in, and check out design information from PDMLink. The course materials are designed to replace modules 4, 5 and 6 of the Introduction to Windchill PDMLink 9.0 course or all modules of Windchill PDMLink 9.0 – CAD Data Management course for students who must share and manage design data in PDMLink.

After finishing the course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

After completing this course, you will be able to:

- ! Complete basic PDMLink tasks and activities.
- ! Manage CATIA design information.
- ! Have a better understanding of the PDMLink system implementation at your company.

### Prerequisites

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- ! SAB-CEK 2491-090 Windchill PDMLink 9.0 – Application Orientation.
- ! Working knowledge of CATIA.

### Audience

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This course is intended for End Users that generate design files in CATIA.

### Topics

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- ! Installing the Workgroup Manager
  - ! Registering CATIA with the Workgroup Manager
  - ! Locating information
  - ! Viewing information
  - ! Initiating new designs and sharing design information
  - ! Modifying and Managing Design information
  - ! Windchill parts and the association to CAD documents
  - ! Managing the Workspace Environment
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## Table of Contents

Module 1	Getting Started with CATIA Data Management
Module 2	Initiating New Designs and Sharing Design Information
Module 3	Modifying and Managing Design Information
Module 4	Managing Design Tables

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## AutoCAD Data Management using Windchill PDMLink 9.0

Course Code	SAB-CEK2875
Course Length	3 Hours

### Overview

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In this AutoCAD Data Management using Windchill PDMLink 9.0 course, you will learn the basic skills necessary for using the Workgroup Manager to manage AutoCAD design data. You will learn about installation, configuration, and the basic operations to upload, check in, and check out AutoCAD design information from Windchill PDMLink. The course materials are designed to replace Modules 4, 5, and 6 of the Introduction to Windchill PDMLink 9.0 course or all modules of Windchill PDMLink 9.0 – CAD Data Management course for students who must share and manage AutoCAD design data in PDMLink.

After finishing the course, you will complete Pro/FICIENCY skills assessment questions. These questions are used to help reinforce your understanding of the course topics.

### Prerequisites

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- ! SAB-CEK 2491-090 Windchill PDMLink 9.0 – Application Orientation.
- ! Working knowledge of AutoCAD.

### Audience

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This course is intended for End Users that generate design files in AutoCAD.

### Topics

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- ! Installing the Workgroup Manager
  - ! Register AutoCAD with the Workgroup Manager
  - ! Locating information
  - ! Viewing information
  - ! Initiating new designs and sharing design information
  - ! Modifying and Managing Design information
  - ! Windchill parts and their association to CAD documents
  - ! Managing the Workspace Environment
-

## Table of Contents

Module 1	Getting Started with AutoCAD Data Management
Module 2	Initiating New Designs and Sharing Design Information
Module 3	Modifying and Managing Design Information

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## Pro/ENGINEER Data Management using Windchill PDMLink 9.1

Course Code	SAB-CEK2939
Course Length	8 Hours

### Overview

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In this course, you will learn key capabilities and features of PDMLink CAD Data Management and how to use PDMLink to manage Pro/ENGINEER design information. Specifically, you will focus on the day-to-day data management tasks required by the Pro/ENGINEER user community, including how to associate the Pro/ENGINEER CAD data structure to the eBOM. You will also learn how to use PDMLink to perform basic PDM functions on Pro/ENGINEER CAD Documents and their associated eBOM objects. The course materials are designed to replace modules 4, 5, and 6 of the Introduction to Windchill PDMLink 9.0 course or all modules of Windchill PDMLink 9.0 – CAD Data Management course for students who must share and manage Pro/ENGINEER design data in PDMLink.

You will complete Pro/FICIENCY skills assessment questions for each module. These questions are used to help reinforce your understanding of the course topics and form the basis for daily review sessions.

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

### Prerequisites

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- ! T2136 (Introduction to Windchill PDMLink 9.0) or SAB-CEK2491 (Windchill PDMLink 9.0 - Application Orientation).
- ! Working knowledge of Pro/ENGINEER Wildfire 4.0.

### Audience

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

### Topics

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- ! Locating Information
  - ! Viewing Information
  - ! Initiating New Designs and Sharing Design Information
  - ! Modifying and Managing Design Information
  - ! Understanding File Relationships and Dependencies
  - ! Managing Family Tables
  - ! Windchill parts and their association to CAD documents
  - ! Understand the PDMLink 9.1 Pro/ENGINEER Data Management enhancements
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## Table of Contents

Module 1	Getting Started with Pro/ENGINEER Data Management
Module 2	Initiating New Designs and Sharing Design Information
Module 3	Modifying and Managing Design Information
Module 4	Understanding File Relationships and Dependencies
Module 5	Managing Family Tables
Module 6	Managing the Workspace Environment
Module 7	PDMLink 9.1 Pro/ENGINEER Data Management Enhancements

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