Windchill PDMLink 9.0/9.1 Business Administration

Course Code	TRN-2139-T
Course Length	3 Days

Overview

In this course, you will learn how to perform basic Windchill PDMLink 9.0 and 9.1 administration tasks. You will learn how to plan and create user accounts and groups, and how to plan and create information management storage strategies. Other topics will include life cycles, workflows, teams, and configuring domain policies. These skills are important because they enable a business administrator to configure Windchill PDMLink to meet business needs.

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 daily review sessions.

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

Prerequisites

- Introduction to Windchill PDMLink 9.0 instructor-led training course.
- Knowledge of your company's content management business rules, business requirements, and existing business processes

Audience

This course is intended for business administrators, system administrators, and project team leaders. Implementation team members, including user adoption team members, and those with general Windchill PDMLink administration responsibilities will also benefit from taking this course.

Topics

- Planning and creating user accounts and groups
- Planning and creating information storage locations: Products and Libraries
- Planning and configuring data management access control policies
- Planning and implementing data management templates
- Planning and configuring user notification of system events
- Managing data development and business processes through life cycles
- Managing product changes using PDMLink Change Manager features
- Working with Windchill PDMLink administration support tools
- Identify new user and administration preferences
- Enable packages and administer package roles
- Configure new object relationships
- Move objects between organizations and contexts

Agenda

Day 1

Module 1	Introduction to Windchill PDMlink Business Administration
Module 2	Managing Principals
Module 3	Managing Objects, Object Types, and Object Attributes
Module 4	Managing Contexts

Day 2

Module 5	Automating Processes Using Life Cycles and Workflows
Module 6	Managing Domain Policies and Access Control
Module 7	Managing Teams
Module 8	Managing Organization Templates

Day 3

Module 9	Managing Object Type Behavior
Module 10	Managing Change
Module 11	Administrative Support Tools

Table Of Contents

Windchill PDMLink 9.0/9.1 Business Administration

Introduction to Windchill PDMLink Business Administration

Introduction....1-1
Objectives....1-1
Lecture Notes....1-2
Windchill PDMLink....1-3
PDMLink Basic Architecture....1-5
Understanding PDMLink Terminology....1-11
Explaining the Role of the Business Administrator....1-14
Planning a PDMLink Implementation....1-15
Identifying the Data to be Managed....1-17
Common Windchill PDMLink Objects....1-18
Identifying Users Requiring Access to the Data....1-19
Organizing Users into Groups....1-20
Identifying a Data Storage Strategy....1-21
Identifying Business Processes....1-22
Identifying How Users Interact with Data....1-23
Identifying a Notification Strategy....1-24
Identifying an Indexing Strategy....1-25
Planning the Implementation....1-26
Summary....1-32

Managing Principals

Introduction....2-1
Objectives....2-1
Lecture Notes....2-2
Identifying PDMLink Users....2-3
Understanding PDMLink Contexts....2-4
Users and Groups....2-5
User Accounts....2-6
Groups....2-7
System User and Group Structure Diagram....2-8
Best Practices for Organizations, User Accounts, and Groups....2-9
Administrative Navigation....2-10
Creating a Windchill PDMLink Organization....2-11
Creating Users and Groups....2-12

Creating User Accounts....2-13
Testing User Accounts....2-14
Troubleshooting User Accounts....2-15
Creating Groups....2-16
Group Membership....2-17
Managing Existing Principals....2-18
Updating User Account Information....2-19
Deleting a User Account....2-20
Identify the Results of Deleting a User....2-21
Identify Business Process Implications of Deleting User Accounts....2-22
Deleting a User Account....2-24
Deleting Groups....2-25
Identify the Results of Deleting a Group....2-26
Identify Business Process Implications of Deleting Groups....2-27
Deleting Groups....2-28
Deleting an Organization....2-29
Windchill PDMLink Principal Maintenance Tool....2-30
Lab Exercises....2-31
Exercise 1: Creating an Organization....2-31
Exercise 2: Creating User Accounts....2-32
Exercise 3: Creating Groups....2-34
Exercise 4: Adding Users to Groups....2-35
Exercise 5: Deleting Users....2-37
Summary....2-38
Managing Objects, Object Types, and Object Attributes
Introduction....3-1
Objectives....3-1
Lecture Notes....3-2
Windchill PDMLink Objects Review....3-3
Windchill PDMLink Object Typing Capability....3-4
Creating Soft Types....3-5
The Attribute Definition Manager....3-6
The Type Manager....3-7
Defining Soft Types and Soft Attributes....3-8
Soft Attribute Constraints....3-9
Document and Reference Document Types....3-11
Using Document and Reference Document Types....3-12
Best Practices for using the Type Manager....3-13

Measurement System Administration....3-14
Quantity of Measure Administration....3-15
Lab Exercises....3-16
Exercise 1: Creating Soft Attributes....3-16
Exercise 2: Creating Document Soft Types....3-19
Exercise 3: Adding Attributes to Document Types....3-21
Summary....3-22
Managing Contexts
Introduction....4-1
Objectives....4-1
Lecture Notes....4-2
Understanding Contexts....4-3
Relationships Between Contexts....4-4
Identifying Locations for Storing Data....4-6
Windchill PDMLink Product Characteristics....4-7
Results of Creating a Product....4-8
Windchill PDMLink Library Characteristics....4-9
Results of Creating a Library....4-10
Assigning Product and Library Creators....4-11
Creating Products....4-12
Creating Libraries....4-13
Using Folders....4-14
Lab Exercises....4-15
Exercise 1: Assigning Product and Library Creators....4-15
Exercise 2: Creating Products....4-17
Exercise 3: Creating Folders....4-18
Exercise 4: Creating Libraries....4-19
Summary....4-19
Automating Processes Using Life Cycles and Workflows
Introduction....5-1
Objectives....5-1
Lecture Notes....5-2
Identifying Business Processes....5-3
Assess Your Business Processes....5-4
Identifying Life Cycles, Workflow Templates, and Teams....5-5
Understanding Windchill PDMLink Life Cycles....5-6
Understanding Windchill PDMLink Life Cycle Types....5-7
Common Windchill PDMLink Life Cycle Managed Objects....5-8

Defining Object Life Cycle Resolution 5-9
Creating a Life Cycle 5-10
Specifying Life Cycle Properties 5-11
Adding Life Cycle States 5-12
Defining States 5-13
Identifying Life Cycle State Names 5-14
Identifying a Version Series 5-15
State-Based Versioning Example 5-16
Understanding Transitions 5-17
Defining Transitions 5-18
Understanding Life Cycle Transition Types 5-19
Defining Role Participation 5-24
Defining Access Permissions using Life Cycles 5-25
Choosing Workflow Templates 5-26
Life Cycle and Workflow Template Relationships 5-27
Specifying Promotion Criteria 5-29
Defining Workflow Templates 5-30
Workflow Template Properties 5-32
Defining Components of Workflow Templates 5-33
Creating a Workflow Template 5-40
Workflow and Life Cycle Best Practices 5-41
Lab Exercises 5-43
Exercise 1: Creating Basic Life Cycle Templates 5-43
Exercise 2: Creating Workflow Templates 5-46
Exercise 3: Creating Advanced Life Cycle Templates 5-51
Summary 5-52
Managing Domain Policies and Access Control
Introduction 6-1
Objectives 6-1
Lecture Notes 6-2
Windchill PDMLink Context Architecture 6-3
Understanding Context and Domain Relationships 6-4
Defining Windchill PDMLink Domain Architecture 6-5
Defining Windchill PDMLink User Domain Architecture 6-6
Defining Windchill PDMLink System Domain Architecture 6-7
Defining Windchill PDMLink Special Site Domain Architecture 6-8
Defining Windchill PDMLink Data Domain Architecture 6-9
Defining Windchill PDMLink Private Domain Architecture 6-10

Defining Windchill PDMLink Folder Domain Architecture....6-11
Domain Architecture in the Policy Administrator....6-12
Defining Windchill PDMLink Domain Policies....6-13
Understanding Access Control....6-14
Planning Access Control Strategies....6-15
Defining Access Control Permissions....6-16
Access Control Permission Selection....6-18
Permissions Needed for Move Operations....6-19
Permissions Needed for Set Life Cycle State Operations....6-20
Permissions Needed for Change Identify Operations....6-21
Permissions Needed for View/Download Content Operations....6-22
Permissions Needed for Modify Content Operations....6-23
Defining Access Control Policy Rules....6-24
Understanding Access Control Policy Rules - Example....6-25
Access Control Permission Considerations....6-26
Domain Access Control Permission Rules....6-28
Calculating Domain Policy Permissions - Example....6-29
Best Practices for Applying Access Control Rules....6-30
Ad-Hoc Access Control....6-31
Checking Access Control Permissions....6-32
Troubleshooting Access Control Issues....6-33
Defining a Notification Policy....6-34
Implementing a Notification Policy....6-35
Troubleshooting Context-based Notifications....6-36
Defining an Indexing Policy....6-37
Implementing an Indexing Policy....6-38
Lab Exercises....6-39
Exercise 1: Creating Domains and Setting Domain Policies....6-39
Exercise 2: Setting Folder Domains....6-41
Summary....6-41
Managing Teams
Introduction....7-1
Objectives....7-1
Lecture Notes....7-2
Team Management....7-3
Terminology....7-4
Context Teams....7-12
Context Team Architecture....7-13

Applying Access Control with Context Teams 7-21
Access Control for Product and Library Templates 7-22
Best Practices for Using Context Teams for Access Control 7-23
Shared Teams 7-24
Shared Teams Where Used Query 7-25
Using a Shared Team 7-26
Role Resolution with Teams 7-27
Understanding Role Resolution and Team Templates 7-28
Understanding Role Resolution and Context Teams 7-29
Understanding Role Resolution and Team Instances 7-30
Team Instance Definition 7-31
Defining Object Team Template Resolution 7-33
Creating Team Templates 7-34
Proper Team Role Resolution 7-35
Team Role Resolution Best Practices 7-36
Product and Library Template Context Team Roles 7-37
Guests Context Role 7-38
Members Context Role 7-39
Product/Library Manager Context Role 7-40
Change Administrator and Change Review Board Context Roles 7-41
Promotion Approvers and Reviewers Context Roles 7-42
Organization Roles 7-43
Product and Library Roles 7-44
Custom Resource Bundle Roles 7-45
Team Management Best Practices 7-46
Lab Exercises 7-47
Exercise 1: Administering Organization Roles 7-47
Exercise 2: Creating Team Templates 7-48
Exercise 3: Administering Context Teams 7-49
Summary 7-49
Managing Organization Templates
Introduction 8-1
Objectives 8-1
Lecture Notes 8-2
Windchill PDMLink Templates 8-3
Template Access 8-5
Creating Document Templates 8-6
Creating CAD Document Templates 8-7

Context Templates....8-8
Creating a Product/Library Template....8-9
Out-of-the-box Product and Library Templates....8-10
Organization Templates....8-11
Actions for Context Templates....8-12
Lab Exercises....8-13
Exercise 1: Creating Document Templates....8-13
Exercise 2: Creating Product Context Templates....8-14
Summary....8-14
Managing Object Type Behavior
Introduction....9-1
Objectives....9-1
Lecture Notes....9-2
Object Initialization Rules....9-3
Object Initialization Rule Management....9-4
Object Initialization Rule Example....9-6
Object Numbering Scheme Rules....9-7
Versioning Scheme Rules....9-9
Folder Path Rules....9-11
Life Cycle Association Rules....9-12
Team Template Association Rules....9-13
Lab Exercises....9-14
Exercise 1: Administering Object Initialization Rules....9-14
Exercise 2: Testing the Business Environment....9-16
Summary....9-17
Managing Change
Introduction....10-1
Objectives....10-1
Lecture Notes....10-2
Setting Up a Change Management Process....10-3
Windchill PDMLink Change Management....10-4
Windchill PDMLink Change Management Components....10-5
Windchill PDMLink Change Objects....10-6
Identifying Change Management Life Cycles....10-7
Identifying Change Management Workflow Templates....10-8
Identifying Change Management Life Cycles & Workflows....10-9
Process and Life Cycle Relationships....10-17
Identifying Change Management Team Templates....10-18

Assigning Participants to Change Management Roles 10-19
Configuring Change Management Policies 10-20
Configuring Change Management Preferences 10-21
Accessing Business Metrics 10-22
Summary 10-24
Administrative Support Tools
Introduction 11-1
Objectives 11-1
Lecture Notes 11-2
Administrator-saved Searches 11-3
User Profiles 11-4
Windchill PDMLink Views 11-5
Calendar Management 11-7
Preference Management 11-9
Report Management 11-10
Report Manager 11-11
Visualization Publishing 11-13
Purge Manager 11-17
Security Auditing and Usage Reporting 11-19
License Usage Reporting 11-20
Security Audit Reporting 11-21
Auditable Events 11-22
Information Captured in the Log 11-23
Lab Exercises 11-24
Exercise 1: Creating Administrator-saved Searches 11-24
Exercise 2: Administering Windchill PDMLink Views 11-26
Exercise 3: Administering Organization Preferences 11-28
Exercise 4: Administering User Profiles 11-29
Exercise 5: Executing Audit Reports 11-30
Summary 11-31
Windchill 9.1 Business Administration Enhancements
Introduction A-1
Objectives A-1
Lecture Notes A-2
Administering Preferences A-3
Understanding Iteration and Revision Controls A-4
Check-Out of Non-Latest Iteration A-5
Managing the Check-Out of Non-Latest Iterations A-6

Revising the Non-Latest Revision of an Object....A-7
Managing the Revision of Non-Latest Object Revisions....A-8
Managing Promotion Preferences....A-9
Understanding the Promote Action in a Basic Life Cycle....A-10
The Promotion Request Approval Process....A-11
The Promotion Request Review Process....A-12
Managing Promotion Preference Processes....A-13
Creating a New Promotion Process Preference....A-14
Changing a Promotion Preference....A-15
Packages....A-16
Administering Packages....A-17
Administering Package Roles....A-18
Windchill Link Typing Capability....A-19
Identifying Link Behavior....A-20
The Relationship Constraint Manager....A-22
Creating a Relationship Constraint....A-23
The Move Action....A-24
Moving an Object....A-25
Summary....A-25