PTC Windchill Training

COURSE CONTENT

About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

PTC Windchill Training by Multisoft Systems is a comprehensive program designed to equip professionals with the skills required to efficiently manage product lifecycle data using Windchill, a leading Product Lifecycle Management (PLM) solution. This training course focuses on helping learners understand the core functionalities of Windchill, including product data management, configuration management, document control, versioning, and change management processes.

Module 1: Windchill PLM Fundamentals

- ✓ Windchill PLM Overview
- ✓ Understand the Windchill PDM Link environment and terminology
- ✓ Create Organization, Products, and Library
- ✓ Participant Administration User & Group Management
- ✓ Assign product and library creators
- ✓ Create and Manage Folders
- ✓ Create and manage Parts, Parts structures
- ✓ Concept of Windchill views
- ✓ Create and manage documents, documents Structure. Create reference link, describe link
- ✓ Create EPM Document, Concept of workspace, Create and manage Object in workspace
- ✓ Concept of Iteration, Version, Revision, Checkout, Checkin, Revise, Delete actions

Module 2: Windchill PLM Overview

- ✓ Understand the Windchill PDM Link environment and terminology
- ✓ Create Organization, Products, and Library
- ✓ Participant Administration User & Group Management
- ✓ Assign product and library creators
- ✓ Create and Manage Folders
- ✓ Create and manage Parts, Parts structures
- ✓ Concept of Windchill views
- ✓ Create and manage documents, documents Structure. Create reference link, describe link
- ✓ Create EPM Document, Concept of workspace, Create and manage Object in workspace
- ✓ Concept of Iteration, Version, Revision, Checkout, Check-in, Revise, Delete actions
- ✓ Products, Groups and PDMLink Process

Module 3: Business admin Configuration - Business Object

✓ Configurations - Basics

   o Introduction to Type and Attribute Manager

   o Extending OOTB Windchill Types, Assign new Icon to Soft type

   o Create Global & Standard Attributes, Alias Attributes

   o Customization of Layouts, Hide Attributes from different layout

   o Adding Constraints to Attribute

   o Attributes, Versioning, OIR

✓ Calculated Attributes, Graphic Attributes

   o Create and manage Object initialization rules

   o Create Custom OIR, Configure manual numbering, auto numbering, custom Versioning scheme, Lifecycle in OIR

Module 4: Work with Policies, Profiles and Access Control

✓ Understand the Windchill domain policy architecture

✓ Define access control policies to Customized Soft Type

✓ Identify individual access control permissions, Ad Hoc access control

✓ Understand Windchill Profiles and Access control Uses

Module 5: Business Object Configurations - Advanced

✓ Export Soft Type with Attributes, Definition exporter

✓ Create Custom Versioning scheme, load, read custom sequence

✓ Understand LoadFromFile and LoadFromSet Utility

✓ Enable Configurable link

✓ Navigating to different preference

Module 6: Business logic customization

✓ Use Context Teams and team templates to conduct workflow role resolution

✓ Customization Lifecycle and Workflow, Associate life cycle and workflow to Soft Type

✓ Create a Custom Lifecycle States and Roles using EnumCustomize Utility

Module 7: Windchill Database Technology and Development / Deployment Environment Setup

✓ Overview of Windchill Objects Table and their links

✓ Understand how data gets updated in Windchill.

✓ Create SQL queries to retrieve the data

✓ Windchill Shell, xconfmanager utility & Understand Different Properties Usage

✓ Registering the Custom Properties, Deleting and updating entries in Custom Properties

✓ Eclipse project configuration, Windchill API Walkthrough & wtsafearea concept

Module 8: Advanced Development - Server-side Customization

✓ Overview of Windchill Service Framework and register using xconf file

✓ Query Result,QuerySpec, statement spec, search condition

✓ Create methods for getting attribute values, setting iba values

Module 9: Server-side Customization – Events, RMI

✓ Customization Event Listener and Register a Listener

✓ Create a custom preference and use it in java program

✓ Create a program for Windchill listener to work only for a specific container

✓ Customizing DB Column length for WTPartmaster, Increase length for number

✓ Customizing Rule algorithm for Object Number

✓ Create a Windchill Stand Alone Utility Program using RMI connection

Module 10: UI Customization - Basics

- ✓ Overview of Action and Model, Create Custom actions and Custom model files
- ✓ Create a Resource Bundle File for custom actions Using Annotation
- ✓ MVC Overview, Understand MVC components. jcaDebug Utility
- ✓ Create Table builder and display All product parts details, property and Attribute panel.
- ✓ Overview of Data Utilities &Registering the Data Utilities, Calling a DataUtilites from MVC table

Module 11: UI Customization - Advanced

- ✓ Overview of Form Processor and understand different phases of Form Processing
- ✓ Create custom action and Register Form Processor in Action and model
- ✓ Form validation, Action validation, Custom validations