

Training Agenda

J-Link Using Pro/ENGINEER Wildfire 2.0

Day One Optional (10 Tasks)

Welcome and Introduction

Introduction of Java

- Introduction
- Java History Description
- Operating Systems Supported by Sun
- Java compared to C++
- Applications, Applets, and Servlet
- How Java Compiles and Interprets Code

Create/Edit Java files

- Introduction
- How to use DOS prompt to run and compile source code
- Common error messages and solutions
- Using Edit Plus to develop an application
- ✓ 1 Tasks will be completed

Basic Programming Skill

- Introduction
- Understanding Comments and Java statements
- Understanding and Declaring Classes
- Understand creating methods (main method declaration)
- Understanding Primitive data
- Understanding how to initialize variables
- Understanding how to Initialize Constants
- Understanding code assignment statements
- Understanding the String object
- Understanding the System.out statement
- ✓ 5 Tasks will be completed

Creating Applications

- Introduction of the JOptionPane Class
- Importing Classes
- Creating a input/message dialog box using the JOptionPane class
- Using the System.exit method
- Understanding Relational and Logical Operators
- Understanding the if/else statements (Conditional statements)
- Understanding Loops
- Understanding error handling (try/catch statements)
- Understanding how to use methods
- ✓ 4 Tasks will be completed

Object Oriented Programs

- Introduction of Object Oriented Programs

Day Two (26 Tasks)

Welcome and Introduction

Introduction of J-Link

- Introduction
- Java Programming
- What is J-Link
- Installation and Setup
- Class Types
- Exception handling
- ✓ 5 Tasks will be completed

Eclipse – Using a Java IDE

- Introduction of Eclipse
- Downloading and Setup of Eclipse
- Working with Projects
- Creating a New Project
- ✓ 2 Tasks will be completed

Synchronous Mode – Understanding Synchronous Mode

- Registering a J-Link Synchronous Application
- Structure of a Synchronous Java Class
- Creating Buttons, Menus, and Messages files
- Creating a protk.dat
- Running a Synchronous Application\
- Getting input from a user
- ✓ 9 Tasks will be completed

Model Objects – Understanding the Model Object

- Retrieving Models
- Selecting a Model using a Java browser
- Calling the openDialogWindow class
- Opening Multiple Objects
- ✓ 10 Tasks will be completed

Day Three (12 Tasks)

Parameter Objects – Understanding Parameters in J-Link

- Getting a list of parameters from a model
- Getting Parameter Designation Status
- Adding a Pre-existing Class to the Project
- Calling class to Read a text file
- Creating and renaming Parameters
- ✓ 10 Tasks will be completed

Feature Objects – Understanding Feature Objects

- Obtaining feature information and types
- Deleting and renaming features
- ✓ 2 Tasks will be completed

Day Four (21 Tasks)

Family Table – Understand Family Table Objects

- Verifying family table Instances
- Adding a family table column
- Accessing family table rows and columns
- ✓ 8 Tasks will be completed

Assembly Objects – Understanding Assemblies

- Assembly component feature objects
- Traversing Assemblies
- Retrieving Active Assembly Components Parameters
- Recursive Assemblies
- ✓ 5 Task will be completed

Asynchronous Mode – Understanding Asynchronous Mode

- Setting up a Asynchronous Mode
- Connecting to Pro/ENGINEER
- Opening a model in Pro/ENGINEER
- Understanding the debug mode
- Start and Connect to Pro/ENGINEER
- ✓ 8 Tasks will be completed

Day Five (17 Tasks)

Drawing Objects – Understanding Drawing Objects

- Drawing Object Structure
- Retrieve Drawings
- Replace Drawing Formats
- Retrieve Drawing Information
- Add/Remove Drawing Tables
- Modify/Add Text in Drawing Tables
- Determine notes references
- ✓ 12 Tasks will be complete

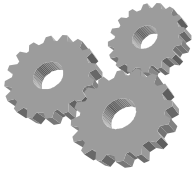
Deploying Applications – Understanding Deploying Achieves

- Creating Application Jar files
- Deploying and Updating Jar files
- Creating startup script
- ✓ 5 Tasks will be complete

Optional Modules

Module A – Windchill Functions

- Introduction
- Windchill Functions
- Creating a J-Link Application using Windchill
- Creating Windchill Methods



Training Materials Information
J-Link Using Pro/ENGINEER Wildfire 2.0

Breaks

There will be a 15 minute morning and late after noon intermission. Lunch will be taken for 1 hour approximately at noon.

Class Durations

The class is planned to approximately start at 9:00 am and end at 5:00 pm each day.

Equipment & Materials Supplied

Each student will receive an Introduction to Java and a J-Link Training Manual with a CD that includes the J-Builder IDE application and all the training files.

Onsite Class

There can be laptops equipped with Pro/ENGINEER Wildfire 2.0 for all students if requested. Each laptop will have all training material and required software for training.

Students can provide their own laptops if desired. Students should have the required software installed listed below.

- Pro/ENGINEER (Wildfire 2.0)
- JBuilder Foundation
http://www.borland.com/products/downloads/download_jbuilder.html
- J2SE Software Development (SDK) 1.4.x for windows
Download JDSE SDK at <http://java.sun.com/j2se/1.4.2/download.html>

To install and run the J2SDK, Sun recommends that PCs have these minimum requirements:

- Pentium III processor
- 500 MHz 256 MB RAM
- 100 MB free space

All required software and training files are provided on site on a CD or USB smart drive with the exception of PTC Products.

Offsite Class

Each student will have a computer with all required software loaded for training.