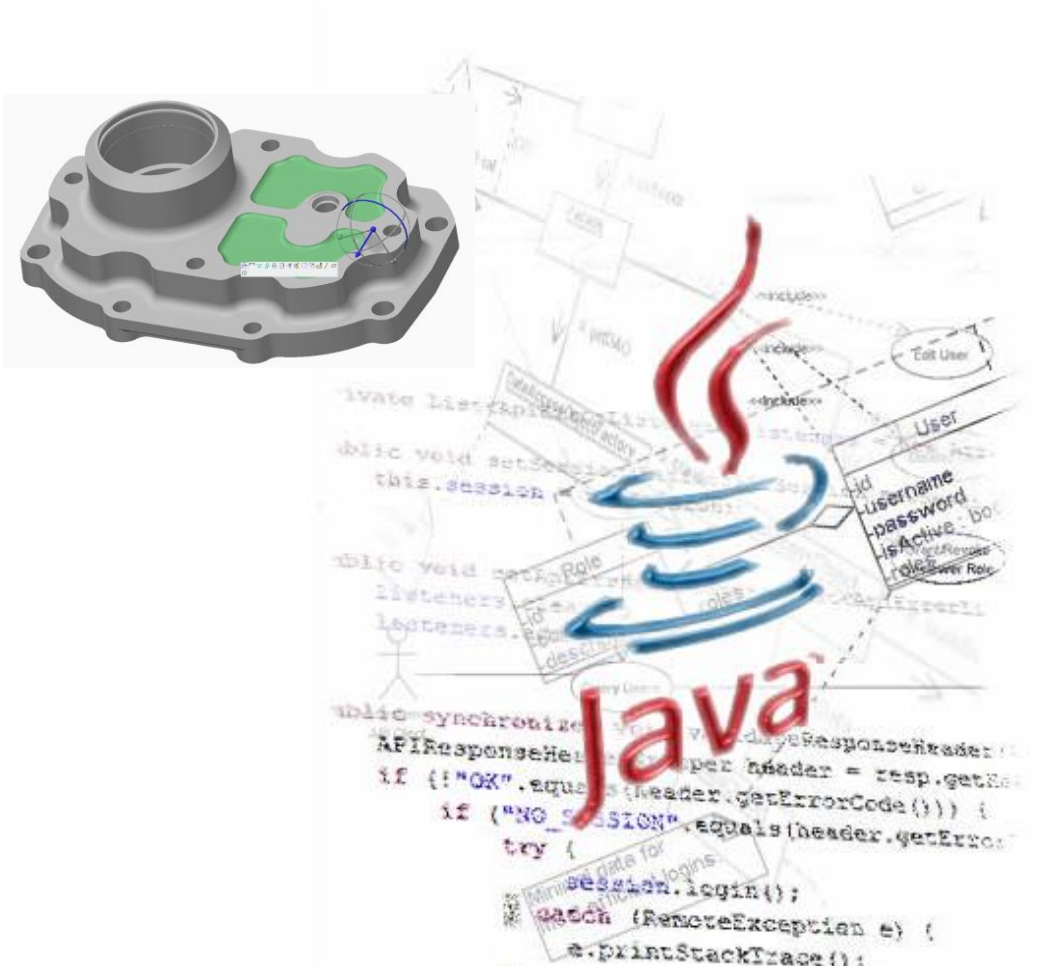
FELCO Solutions, Inc.



Customizing Creo Parametric with J-LINK

Release Creo Parametric 2.0, 3.0 & 4.0

This course discusses the fundamentals of Java and J-Link. It provides students with the knowledge of effectively using J-Link to automate Creo objects. The course will teach creating Java interfaces to interact with Creo. This is an extensive hands-on course, in which students have the opportunity to apply their knowledge through Creo automation examples, such as: modifying multiple model parameter, verifying multiple family tables, and connecting to a database to extract part information. The course covers the development of Java programs to access the internal components of a Creo session, to customize models.

Creo Version: All Creo Versions

License Requirements: JLink is a free API that does not require any special license to develop or run JLink applications with Creo.

Prerequisites: Lessons and exercises require that you have familarity with Java or Object-oriented programming principles and concepts with a extensive knowledge of Creo.

Training Agenda

Customizing Creo with J-Link

Day One (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
- Creating a Package

✓ *2 Tasks will be completed*

Synchronous Mode – Understanding Synchronous Mode

- Registering a J-Link Synchronous Application
- Structure of a Synchronous Java Class
- Creating Tabs, Groups, Buttons and Messages files
- Creating a creotk.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 Models
- Opening Multiple Objects

✓ *10 Tasks will be completed*

Day Two (12 Tasks)

Parameter Objects – Understanding Parameters in J-Link

- Getting a list of parameters from a model
- Getting Parameter Designation Status
- Reading from 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 Three (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 Four (15 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

- Deploying and Updating JAR files
- Creating startup script
- ✓ *3 Tasks will be complete*

Action Listeners

- Creating Action Listeners
- ✓ *4 Tasks will be complete*