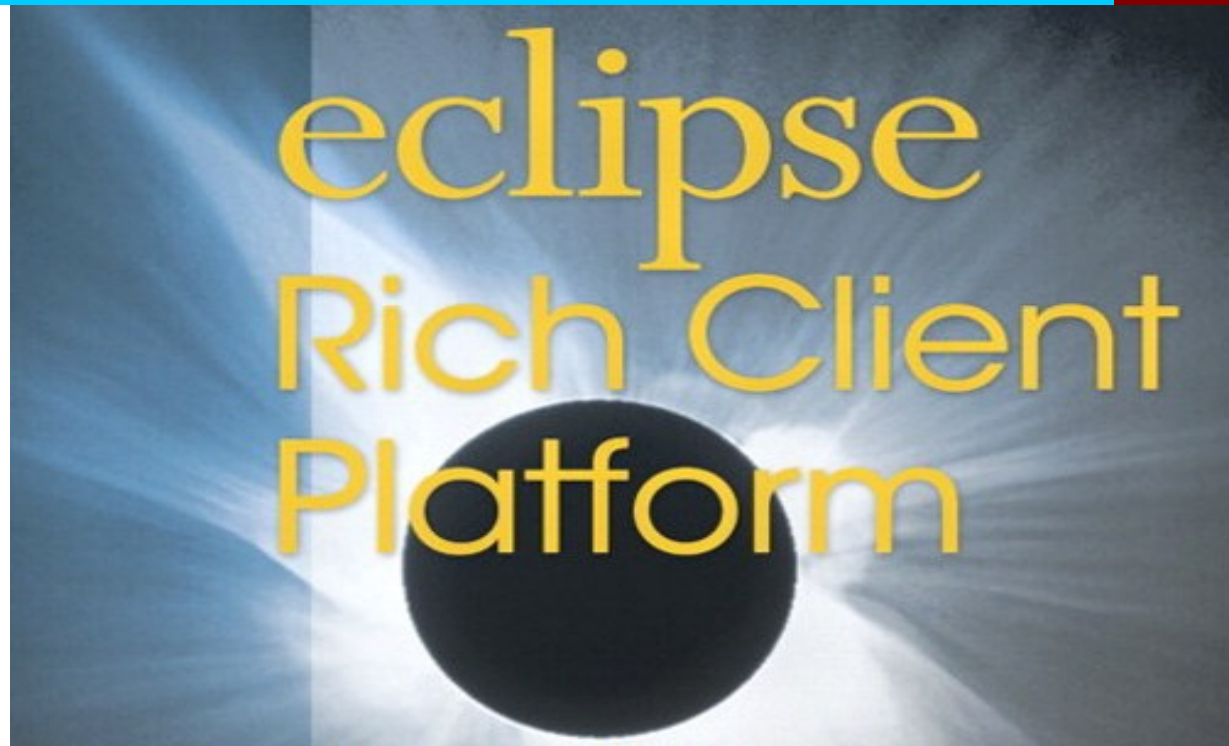


## **RCP COURSE CONTENT**



Eclipse RCP is a platform for building and deploying rich client applications. It includes Equinox, a component framework based on the OSGi standard, the ability to deploy native GUI applications to a variety of desktop operating systems, such as Windows, Linux and Mac OSX and an integrated update mechanism for deploying desktop applications from a central server.

**Annamalai C ANCIT Consulting**

# ECLIPSE PLUGIN/RCP DEVELOPMENT Training Program

## Target Audience

This course is designed for developers who want to develop commercial applications for Eclipse or want to extend Eclipse or Eclipse-based products to meet specific requirements.

## Goal of this Training

- Command of the basic development cycle in plugin development (PDE, Unit testing of plugins, Deployment).
- Use of APIs for the development of GUIs and for the integration of tools.
- Understanding of the Eclipse architecture and orientation within the individual subsystems of the platform.
- Understanding of the Plugin development best practices.
- To be familiar with all relevant concepts and features of the Eclipse's Rich Client Platform (RCP) and to be able to apply this knowledge to your GUI development needs.

## Prerequisites

- Strong knowledge of Java and a basic knowledge of XML.
- Strong knowledge of object-oriented programming.
- Understanding of design patterns, refactoring, and unit testing will be valuable but is not required.

## Duration and Additional Information

- It is a 3 day program and extends upto 8hrs each.
- The format is 60% theory, 40% lab.
- Max 15Nos. per Class.

## ABOUT ANCIT:

ANCIT Consulting is an Eclipse Consulting Firm located in the "Silicon Valley of Outsourcing", Bangalore. Offers professional Eclipse Support and Training for various Eclipse based Frameworks including RCP, EMF, GEF, GMF. Contact us on [annamalai@ancitconsulting.com](mailto:annamalai@ancitconsulting.com) to learn more about our services.

For details of the Course please refer to the attached Annexure.



## **Annexure – Table of Contents for EPRD Training**

### **1. Introduction to Eclipse**

- What is Eclipse? – An introduction
- Eclipse as an IDE. For.e.g. JDT
- Eclipse as a Tool Development Framework. For e.g. PDE
- Eclipse as an Application Development Framework. For e.g. RCP
- Building Blocks of Eclipse Platform – Workbench, Workspace, Help, Team
- Who is On – BOARD ??

### **2. Eclipse Architecture**

- Basic Architecture
- Platform Runtime
- Extension Points
- Plug-ins (plugin.xml, manifest.xml)
- Eclipse API

### **3. Plug-in Development**

- Extending Workbench, Commonly used Extension Points
- Plug-in Development Environment & Plug-in Editor
- Developing, Installing and Running a Plug-in
- Plug-in Registry

### **4. Extending Perspective**

- Introduction to Perspective
- Create our own Perspective, and add Views, Actions to the Perspective
- Use Perspective Extensions

### **5. Extending Views**

- Introduction to Views.
- Extending a View.
- Use of JFace Viewer to display Data. (Sorting and Filtering)
- Including PopUp Menu on the View.
- Attaching a Local Toolbar & MenuBar to the View.

### **6. Extending Form Editors**

- Introduction to Form Editors
- Load and Save of Editors
- Managing the Dirty Flag for Editors

### **7. Extending Actions, PopUp Menus, Commands & Handlers**

- Extending Actions (ActionSet, ViewAction, EditorAction)
- Extending PopUpMenus (Object Contribution, ViewerContribution)

## **8. JFace Wizards & Dialogs**

- Using the Message Dialog from Eclipse
- Extending Wizards (New, Import and Export)
- Introduction to Workspace Job
- **Developing a Wizard to update our View**

## **9. Bundling & Deploying of Eclipse Plugins**

- What is build.properties ?
- Steps to configurate Manifest Editor before Export.
- Introduction to Eclipse Features

## **10. Introduction to Extension Points**

- Defining your own Extension Point
- Consuming your own Extension Point

## **11. Introduction to RCP**

- What is an RCP?
- What is required to make an RCP
- LifeCycle of a RCP.

## **12. Creating an RCP**

- Creating a Hello World RCP
- Contributing to Menu & Action Bar
- Adding Views and Perspectives (Created in the previous session)
- Creating a Product Configuration File.
- Launching & Testing an Application
- Adding a Splash Screen
- Adding a Help System (Created in the previous session)
- Branding the Product with Windows Icon, Launcher Name.
- Adding an About Us Page.