

# Eclipse RCP, Plug-in development

Advance course

## Eclipse Platform

Eclipse SDK is both, a leading Java Integrated Development Environment (IDE) and the single best tool available for building arbitrary tools and applications.

The SDK is composed of several Eclipse projects, including the Platform, Java Development Tooling (JDT), and the Plug-in Development Environment (PDE). Using a subset of these projects, you can build powerful IDE's and applications that work in conjunction with application servers, databases, and other backend resources to deliver a rich user experience.

## Workshop

In this workshop, we primarily focus on getting an in-depth understanding of the Eclipse Commands and the Jobs frameworks. We'll learn how to test SWT based applications using the SWTBot framework.

Participants will have an opportunity to build an application using Eclipse SWT and JFace libraries, make use of advanced UI frameworks, Test and Package the application.

## Prerequisite

Knowledge of Java is essential  
Experience of using Eclipse IDE for Java development is essential  
Eclipse RCP Basic course is mandatory.

## Modalities

Duration: 1.5 to 2 days  
Structure: Instructor-led with 100% hands-on labs  
Participants: Maximum 10 per workshop  
Equipment: Participants supply their own computer with the latest Eclipse installed.

# Agenda

## Introduction

- Eclipse RCP and Plug-in development
- Examples of RCP tools.

## Command Framework

- Command framework
- Expression framework
- Programmatic execution
- Passing parameters to commands
- Defining commands at runtime.

## Jobs Framework

- Using the Jobs API for long-running operations
- Job Scheduling Priorities
- Scheduling Rules.

## Testing with SWTBot

- SWTBot Introduction
- Testing using the SWTBot API
- Record and Playback.

## Branding and Packaging

- Product configuration file
- Splash Screen
- Icons, Launcher name, and Program arguments
- Creating an Update Site (P2)
- Creating a Target platform.