

## Eclipse Training Courses

### ***Advanced Eclipse RCP GUI Development ( 3 days )***

25% Instruction 75% Hands On

This course exposes experienced Eclipse RCP developers to the advanced features made available in the core Eclipse and JFace platforms. The course is code-driven, with delegates conducting a series of increasingly advanced proof-of-concept studies.

Delegates are encouraged to introduce their own areas of interest, and courses generally evolve into a series of spontaneous tangents used to explore the technologies and best practice alternatives most applicable to the delegates' interests.

#### **Subject Areas**

- ▶ extensibility – using extension points, adapters, declarative vs. explicit coding
- ▶ perceived vs. actual – thread handling, Jobs best practice
- ▶ accelerating viewers - delayed label providers & virtual content providers
- ▶ data handling strategies – databinding, pagination and event based population
- ▶ overcoming viewer limitations - owner draw, emulated trees, SWT alternatives
- ▶ extension based viewers - element factories & the common navigator framework
- ▶ dynamic GUI – dynamic layouts, 3.3+ table columns, other alternatives
- ▶ rich GUI - field decoration, undo/redo, forms, custom widgets
- ▶ resource management – caches, dispose patterns, image manipulation
- ▶ integration – OSGi services
- ▶ unit and GUI testing – headless applications, emulated user, presenter pattern

#### **Prerequisites**

Delegates must have experience of Eclipse RCP development. They will be expected to be able to follow instructions such as:

- "create a plug-in project that implements extension point XXX";
- "create a table viewer to display these results";
- "add a form to the page with an expandable section".

Beginners should attend the 'Introduction to RCP' course followed by at least twelve weeks of hands-on development before attempting this course.

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| <b>Course Size</b>  | <b>Resources</b>   |
| <ul style="list-style-type: none"> <li>• 4 – 8 delegates</li> </ul> | <ul style="list-style-type: none"> <li>• Windows PC with Eclipse 3.4+</li> </ul> |






#### **Materials**

- all materials supplied (bound instructions and reference material, source code)