

ACCELEO TRAINING

Course Goals

- To be able to efficiently use Acceleo 3 with the MDE approach
- To be able to develop Acceleo 3 generation modules

Our added-value

- Training created by Eclipse committers and real EMF experts
- Many practical exercises (50%)

Duration: 21 hours (6 half days)

Audience: Architects, Developers

Pre-requisites: Good knowledge of Java.
Basic knowledge of Eclipse and UML..

1 - Acceleo 3 presentation

- MDE Approach and the meta models
- Structure of the Eclipse Modeling Project
- Acceleo 3 and Mof-to-Text Language

Exercises

- Setting up Acceleo
- Discovery of the web site and available documents

Duration: 1.5h

2 - Acceleo from a user point of view

- Launching Acceleo modules
- MAVEN build
- Module parameterization
- User code management – incremental generation

Exercises

- Introduction to UML meta-model
- Practice on a sample module: Java generation from a UML model

Duration: 3.5h

3 - Creation of generators

- Acceleo syntax and its templates editor
- Model query instructions
- OCL and Acceleo extensions
- The Result view
- Services
- Indenting templates and generated code

Exercises

- Creation of a XHTML generator
- Advanced navigation and queries with system services
- Creation of Java classes generators
- Generation on other diagrams (activity, use-cases, ...)

Duration: 10 h

4 - Advanced concepts

- Refactoring utilities
- Existing modules extension and templates inheritance, the Overrides view
- The Generation Patterns view
- Advanced usage of profiler
- Packaging and deployment

Exercises

- Templates generalization and reuse
- Deploying an Acceleo generator as a plug-in
- Launching a generation via the generated Java code

Duration: 6h