

Eclipse Model Transformation Technologies

Duration	3 days
Audience	Software architects, software engineers/developers, and language designers
Pre-requisites	Participants should be familiar with the principles of software modeling and have some experience with Java programming and Eclipse
Brief Description	A hands-on course that introduces the participants to the model transformation technologies available in Eclipse.

Description

Provide attendees with the foundations for the model transformation technologies available in Eclipse. The course will provide an introduction to the Eclipse Modeling Framework (EMF), which is essential for understanding the transformation technologies. Two categories of transformation technologies will be covered in the course model-to-text (M2T) and model-to-model (M2M). The M2T technologies include the JET2 and Xpand sub-projects which are part of the Eclipse M2T project, this aspect of the course provides the attendees with the necessary knowledge for generating text based artifacts from a model (including UML) in Eclipse. The M2M technology includes the QVT sub-project, which is part of the Eclipse M2M project. Additionally, the M2M aspect of the course will look at patterns to use for writing M2M transformations using Java.

Target Audience

Software architects, software engineers/developers, and language designers

Course level

Intermediate

Course Pre-requisites

Participants should be familiar with the principles of software modeling and have some experience with the UML, Java programming and Eclipse.

Course Objectives

Provide the attendees with the skills necessary to write both model-to-text and model-to-model transformations in Eclipse using the standard Eclipse technologies.

Course Outline

- Model transformations
 - Eclipse Modeling Framework (EMF)
 - JET
 - Xpand

Java based M2M transformation patterns
QVT