

## Building a Domain-Specific Language with Rational Software Architect/Developer

Duration	4 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 developing a domain-specific language on top of RSA/RSD including language definition and generating code or other artifacts from it.

### Description

Provide attendees with the foundations for developing a domain-specific language (DSL) with Rational Software Architect/Developer. The course will cover defining the abstract syntax of the DSL with a UML Profile, the concrete syntax of the DSL with the extensibility of RSA and transforming the models created with the language into other artifacts with Xpand and QVT.

### 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 attendees with the necessary skills to develop domain-specific languages on top of RSA/RSD.

### Course Outline

- Domain-specific languages
- UML Profiles
- RSA/RSD extensibility
- Xpand
- QVT