

□

Domain-Specific Modeling with IBM Rational Software Architect, V7.5  
Information

<b>Length:</b>	1.0 Day
<b>__Ref:</b>	RD420G-X
<b>Delivery method:</b>	ClassroomInstructor Led Online
<b>Price:</b>	EUR

Overview

This course provides an introduction to domain-specific modeling in IBM Rational Software Architect. The course describes the characteristics of domain-specific languages (DSLs) and the advantages of domain-specific modeling (DSM). Using a simple case study, the course also describes and demonstrates how to design and implement DSLs in UML with UML profiles, and how to generate executable code from a domain-specific model.

Public

This intermediate course is for:

- Solution architects
- Designers
- Developers

Prerequisites

You should have completed:

- *Essentials of Modeling with IBM Rational Software Architect*(RD565G)

Objective

- Describe the uses for domain-specific modeling
- Describe the characteristics of an effective domain-specific language (DSL)
- Describe a process for designing a DSL using UML profiles
- Design a DSL meta-model
- Create a UML profile based on a DSL meta-model
- Generate a graphical palette for the custom UML profile
- Add constraints to a domain-specific model
- Model an example application using the DSL
- Generate executable code from a domain-specific model

## Topics

- Domain-specific languages and domain-specific modeling characteristics
- Choosing an implementation method
- Designing a domain-specific language
- Creating a UML profile Using the profile tooling to generate custom palette elements
- Creating UML profile tooling Transforming a domain-specific model into executable code

□