

The Unified Modeling Language (UML®)

Using Enterprise Architect 13.x or 14.x

Three Day Course Syllabus

DAY 1

Introduction to Enterprise Architect

User Interface

- Desktop layout
- Portals
- Commonly used Windows/Ribbons
- Perspectives, Workspace Layouts, Menu, and Ribbon Configuration

Managing Projects

- Creating and opening Projects
- Creating Root Nodes, Views and Packages
- Adding Models using the Wizard
- Organizing Models with Views and Packages

Managing Diagrams

- Toolbox
- Creation techniques
- Menu/ribbon options, context menu, properties and toolbar
- Navigation between diagrams
- Floating diagrams
- Copy/paste across diagrams

Creating Diagram Elements

- Creation techniques
- Editing properties
- Drag and drop

Customizing Diagram Element Appearance

- Color, Font, Image
- Layering
- Feature Visibility
- Layout and Alignment

Deleting Model Elements

- Diagram level deletions
- Repository level deletions

Managing Connectors

- Creation (toolbox and Quick Linker)
- Redirection
- Line bends
- Line styles

Managing Package Content

- Package Navigator
- Package Browser/List View (overview)

Tool Configuration

- Defining general types
- Personal and global configuration options

COURSE LEADER

Frank Truyen

is a principal consultant and trainer, with 20+ years of experience in the IT industry as a developer, architect, consultant and manager.

Strong expertise in different modeling notations such as UML®, SysML®, SoaML™, DDS™, UPDM™, ArchiMate® and BPMN™, allied with his extensive experience in using the Enterprise Architect modeling tool, allows Frank to successfully provide training and consulting services to a broad variety of customers across many industries.

Modeling Business Architecture

Managing Requirements

- Creating Requirements via a diagram
- Creating Requirements using the Specification Manager
- Other features
- Importing & exporting using Microsoft Excel
- Organizing Requirements

Structural models

- UML (Conceptual) Class diagram

Behavioral models

- UML Use Case diagram
 - Definition
 - Best practices
 - Creating Use Case diagrams
 - Discovering Actors
 - Guidelines for creating Use Cases
 - Modeling Use Case Scenarios
 - Defining constraints
 - Using behavioral diagrams to illustrate Scenarios
 - Tracing Requirements to Use Cases
- UML Activity diagram

DAY 2

Modeling Application Architecture

Structural models

- UML Class diagram (Attributes)
 - Object-Oriented principles
 - Classes and Objects
 - Element visibility
 - Relationships
 - Defining Attributes
 - Adding rules and constraints
 - Stereotypes and Tagged Values
 - Grouping elements into Packages
- UML Composite Structure diagram
- UML Component diagram
- UML Deployment diagram

Behavioral models

- UML Class diagram (Operations)
 - Discovering and assigning responsibilities
 - Patterns for assigning responsibilities
 - Defining Operations, Receptions, and Interfaces
- UML Sequence diagram
 - Combined Fragments
- UML State Machine diagram
- UML Interaction Overview diagram

DAY 3

Traceability and Navigation

Overview

The Relationships window

The Relationship Matrix

The Traceability window

Other traceability features

Core Tool Features

Documentation Generation

RTF/DOCX/PDF generator

Diagram, Package, and Element options

Linking generated documents into Microsoft Word

Model documents

Master documents

Generating HTML

Other features

Document Artifacts

Creating

Linked Documents

External document links

Document window

Model Searches

Initiating

Configuring

Viewing results

Custom searches

Other features

Managing Baselines and comparing models

Creating baselines

Administering baselines

Package comparisons

Diagram comparisons

Extra Tool Features

Diagram features

- Automatic layout
- Element resizing
- Connector features
- Boundaries, Swimlanes, Matrix, and Kanban
- Content filters
- Notes
- Active legends

Element features

- Info View
- Element Browser
- Composite elements
- Linking notes to feature documentation
- Cloning diagrams, elements, Packages
- Time Aware Modeling

Other features

- Working Sets
- Package management
- Charts, Dashboards, and Heatmaps
- Managing hyperlinks
- Keyboard shortcuts
- Getting help
- Model Views
- Glossary

End-to-End Modeling Exercise (if time permits)

- The Online Bookstore model, or
- A User defined modeling exercise