

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

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

DAY 2

Behavioral models

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

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

DAY 3

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

Collaboration Features

Sharing strategies

- Model data (XML/XMI) import/export
 - Understanding globally unique identifiers (GUIDs)

Version Control

- Setup
- Usage
- Other features

Security

- Administration
- Usage

Import/Export of Reference Data

Element Discussions

Formal Reviews

Chat

Email

Optional Features

Project Management

- Element maintenance

 - Tracking Defects, Changes, Issues, Tasks, Decisions, and Events.

- Project Issues

- Roadmap diagrams

- MDG Technology for Project Management

Test Management

- Workspace

- Importing Use Case Scenarios

- Reports

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

- The Online Bookstore model, or

- A User defined modeling exercise