

The Unified Modeling Notation (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 Views/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 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

Modeling Technology Architecture

Code Engineering

Configuration (repository level, User level, other options)

Modeling conventions

Generating from Class models

Importing code files and libraries

Using the built-in code editor

Customizing the generators

Build, test, run and other scripts

Application patterns

Miscellaneous features

Traceability and Navigation

Overview

The Relationships window

The Relationship Matrix

The Traceability window

Other traceability features

Core Tool Features

DAY 3

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

Advanced Features

Patterns

- Leveraging the GOF patterns
- Creating custom patterns

Model-to-Model Transformations

Tool Customization

- Importing and using UML profiles
- Defining language types
- Defining a template package

Model Audit

End-to-End Modeling Exercise

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