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

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**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

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