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

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
**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