The Unified Modeling Language (UML®)
Using Enterprise Architect 13.x or 14.x

Two 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
  - 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
  - Lines styles

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

**Tool Configuration**

- Defining general types
- Personal 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
  - Defining 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 (as time permits)
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