

# Best Practices in Modeling 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 Business Architecture

### Managing Requirements

- Creating Requirements via a diagram
- Creating Requirements using the Specification Manager
- Other features
- Importing & exporting using Microsoft Excel
- Organizing Requirements

### Structural models

- UML (Conceptual) Class diagram

### Behavioral models

- UML Use Case diagram
  - Definition
  - Best practices
  - Use Case diagrams
  - Discovering Actors
  - Guidelines for creating Use Cases
  - Modeling Use Case Scenarios
  - Defining constraints
  - Using Behavioral diagrams to illustrate Scenarios
  - Tracing Requirements to Use Cases
- UML Activity diagram

DAY 2

## Modeling Application Architecture

### Structural models

- UML Class diagram (Attributes)
  - Diagram creation
  - Modeling relationships
  - Defining Attributes
  - Defining Stereotypes and Tagged Values
- UML Component diagram
- UML Deployment diagram

### Behavioral models

- UML Class diagram (Operations)
  - Defining Operations, Receptions, and Interfaces
- UML Sequence diagram
  - Combined Fragments
- UML State Machine
- UML Interaction Overview diagram

## Modeling Technology Architecture

### Database schema

- Creating a data model via Transformation
- Data model patterns
- Creating Tables graphically
  - Adding Columns, Indexes, Triggers and Constraints
  - Adding Procedures, Functions, Sequences and Views
- Generating DDL
- Importing schemas
- Miscellaneous features
- Using the Database Builder

### Traceability and Navigation

- Overview
- The Relationships window
- The Relationship Matrix
- The Traceability window
- Other traceability features

DAY 3

## 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

## End-to-End Modeling Exercise

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