

# Business & Application Architecture using Enterprise Architect 16.x or later

Three Day Course Syllabus

COURSE LEADER

## Introduction to Enterprise Architect

### User Interface

- Desktop layout
  - Overview, Start Page, Visual Style, Portals

- Ribbons
  - Perspectives, Workspace Layouts, and ribbon configuration

### Managing Projects

- Creating and opening Projects
- Creating Root Nodes and Packages
- Browser features
- Organizing models

### Managing Diagrams

- Toolbox
- Creation techniques
- Options in ribbons, context menu, properties dialog and window
- Navigation between diagrams
- Floating diagrams
- Copy/paste across diagrams
- Inline Specification Manager

### Managing Elements

- Creation techniques
- Editing properties
- Drag and drop
- Diagram only elements

### Customizing Diagram Element Appearance

- Background color, font, image
- Layering
- Feature visibility
- Sizing and alignment

### Deleting Model Elements

- Diagram level deletions
- Repository level deletions

### Managing Connectors

- Creation (toolbox and Quick Linker)
- Redirection
- Line bends and styles

### Managing Packages

- Package Navigation
- Identifying and selecting favorite Packages
- Package Browser/List View (overview)

## Tool Configuration

- Defining general types
- Personal and global configuration options

## Frank Truyen

is a principal consultant and trainer, with 25+ years of experience in the IT industry as a developer, architect, consultant and manager.

Strong expertise in key modeling notations (UML®, SysML®, ArchiMate®, and BPMN™), as well as architectural frameworks (UPDM™, UAF®, SABSA®), 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  
**Exercise**

### Structural models

UML (Conceptual) Class diagram

### Behavioral models

UML Use Case diagram  
    Key relationships  
    Diagram creation  
    Include and Extend relationships  
    Modeling and viewing (structured) Scenarios  
    Defining constraints  
    Tracing Requirements to Use Cases  
**Exercise**  
UML Activity diagram  
**Exercise**

## Modeling Application Architecture

### Structural models

UML Class diagram (Attributes)  
    Diagram creation  
    Modeling relationships  
    Defining Attributes  
    Defining Stereotypes and Tagged Values  
**Exercise**  
UML Composite Structure diagram  
**Exercise**  
UML Component diagram  
**Exercise**  
UML Deployment diagram  
**Exercise**

### Behavioral models

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

## Traceability and Navigation

Overview

The Relationships window

The Relationship Matrix

The Traceability window

Other traceability features

**Exercise**

## 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

**Exercise**

## Optional half-day extensions to the above training course

### Option 1 –

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

**Exercise**

#### *Document Artifacts*

Creating

Linked Documents

External document links

Document window

**Exercise**

#### *Model Searches*

Initiating

Configuring

Viewing results

Custom searches

Other features

**Exercise**

### *Managing Baselines and comparing models*

- Creating baselines
- Administering baselines
- Package comparisons
- Diagram comparisons
- Exercise**

## Option 2-

### 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
- Glossary

## Option 3-

### 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

### **Option 4 -**

#### **End-to-End Modeling Exercise**

The Online Bookstore model, or a User defined modeling exercise