

Best Practices in Modeling using Enterprise Architect 15.x or 16.x

Three Day Course Syllabus

DAY I

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

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 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

DAY 2

Modeling Application Architecture

Structural models

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

DAY 3

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

Exercise

Traceability and Navigation

Overview

The Relationships window

The Relationship Matrix

The Traceability window

Other traceability features

Exercise

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

Select either:

Option 1 -

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 2 -

End-to-End Modeling Exercise

The Online Bookstore model, or a User defined modeling exercise