

Best Practices in Modeling using Enterprise Architect 14.x or 15.x

Three Day Course Syllabus

DAY 1

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 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
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 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 diagram
Exercise

UML Interaction Overview diagram

DAY 3

Modeling Technology Architecture

User Interface

- Basic UI components
- Simple User Interface
- Win 32 UI components
- Modeling wireframes

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

XML schema

- Creating a schema model via Transformation
- Creating a schema graphically
- Generating a schema
- Importing a schema
- Other features
- Using the Schema Composer

Exercise

WSDL

- Creating a WSDL model via Transformation
- Creating a WSDL model graphically
- Generating WSDL
- Importing WSDL

Exercise

Traceability and Navigation

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

Exercise

Select either:

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 -

End-to-End Modeling Exercise

The Online Bookstore model, or a User defined modeling exercise