

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
- 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 Composite Structure diagram
- 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

XML schema

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

DAY 3

WSDL

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

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

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