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 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

DAY 3

Modeling Technology Architecture

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

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 <u>either</u>:

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