



Modeling with the Unified Modeling Language (UML®) Using Enterprise Architect 15.x or 16.x

Primer Level (Two-day course syllabus)

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 30+ years of experience in the IT industry as a developer, architect, consultant and project leader. 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

Behavioral models

UML Use Case diagram Definition Best practices Creating 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 Multiple exercises UML Activity diagram (core features) Exercise

Modeling Application Architecture

Structural models

UML Class diagram (Attributes) **Classes and Objects** Element visibility Relationships **Defining Attributes** Adding rules and constraints Defining Stereotypes and Tagged Values Grouping elements into Packages **Multiple exercises** UML Component diagram Interfaces Ports Information Flows Exercise UML Deployment diagram **Optional exercise**





Behavioral models

UML Class diagram (Operations) Discovering and assigning responsibilities Patterns for assigning responsibilities Defining Operations, Receptions, and Interfaces **Exercise** UML Sequence diagram Combined Fragments **Exercise**

Traceability and Navigation

Overview The Relationships window The Relationship Matrix The Traceability window Other traceability features **Exercise**

Optional half-day extensions to the above training course

Option 1: Workshop: UML end-to-end Modeling Exercise

The online bookstore model, or a User defined model

Option 2: Core tool features

Documentation Generation

RTF/DOCX/PDF generator Diagram, Package, and Element options Linking generated documents into Microsoft Word Creating Model Documents Creating Report Packages Generating HTML Creating Custom Documents Other features

Document Artifacts

Creating Document Artifacts Creating Linked Documents Adding (dynamic) model content External document links Document window

Model Searches

Initiating Configuring Viewing results Defining custom searches Other features





Managing Baselines and comparing models

Creating baselines Administering baselines Package comparisons Diagram comparisons

Option 3: Collaboration features

Model sharing strategies Model data (XML /XMI) import/export Understanding globally unique identifiers (GUIDs) Import/Export of Reference Data

Version Control Setup Usage Other features Security Administration Usage

Element Discussions Formal Reviews

Option 4: 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 5: Code Engineering

Generation options 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**

Option 6: Management Features

Project Management

Element maintenance Tracking Defects, Changes, Issues, Tasks, Decisions, and Events. Project Issues Roadmap diagrams MDG Technology for Project Management Exercises

Test Management

Workspace Importing Use Case Scenarios Reports Exercise

Model Audit