CEPHAS CONSULTING

SPARX SYSTEMS Authorised Training Partner

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

Intermediate Level (Two-and-a-half-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.

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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**

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 Composite Structure diagram
- Part
- Port
- Connector
- **Exercise**

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 Activity diagram
- Core Features
- Advanced Features (Part 1)
- **Exercise**

UML Sequence diagram
- Combined Fragments
- **Exercise**

UML State Machine diagram
- **Exercise**

UML Interaction Overview diagram

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