Sparx Systems Enterprise Architect

Audience Sparx Systems Enterprise Architect Course

The course Sparx Systems Enterprise Architect is intended for software engineers, software architects and other future users of Enterprise Architect.

Prerequisites Course Sparx Systems Enterprise Architect

To join the course Sparx Systems Enterprise Architect basic knowledge of UML and object orientation is desirable.

Realization Training Sparx Systems Enterprise Architect

The theory is discussed by means of presentation slides. The concepts are illustrated with demos and there is opportunity to practice. The course material is in English. The course times are from 9.30 up and to 16.30.

Certification Enterprise Architect

Participants receive an official certificate Sparx Systems Enterprise Architect after successful completion of the course.

Duration: 2 days   **Price: € 1299**

Open Schedule

Enterprise Architect
Introduction

Content Course Sparx Systems Enterprise Architect

In the course Sparx Systems Enterprise Architect, participants learn to use the Enterprise Architect tool for system, architecture and business process modeling. The latest and most comprehensive version of Enterprise Architect is used in the course.

Intro Enterprise Architect

The course Sparx Systems Enterprise Architect starts with an overview of the structure of projects with views, models, packages, diagrams, elements and connectors. Also the most important features of Enterprise Architect are discussed such as links versus instances, requirements capturing, documentation generation, reverse engineering, database modeling and support for Model Driven Architecture.

Requirements and Use Cases

The course follows the development cycle of an application where the requirements are the starting point. Many diagrams in Enterprise Architect are based on the universal modeling language UML. For example, attention is paid to Use Case diagrams that describe the use of a system from an external actor.

Domain Modeling

Furthermore domain modeling with class and object diagrams and relationships between classes such as association, aggregation, composition and generalization are treated. The static structure of a system is the main focus here. Attention is also paid to the important difference between links and instances in Enterprise Architect. And also discussed is how you can map a model to data base tables with a live database connection.

Interaction Modeling

Then it is time for the treatment of Interaction Modeling with an emphasis on the dynamic aspects of systems. Typical diagrams such as sequence diagrams and collaboration diagram that are the realizations of the Use Cases are discussed here.

MDG Technologies

Enterprise Architect supports numerous modeling languages for specific applications out of the box. For example the MDG (Model Driven Generation) technologies for Archimate, SysML and SoaML are supported and discussed. Special attention is also paid to Business Process Modeling. It is shown how business processes can be carried out by means of simulations.

MDA Transformations

Finally attention is paid to how Enterprise Architect provides support for Model Driven Architecture and the associated transformations. The difference between the Platform Independent Model (PIM) and Platform Specific Model and code generations to different languages are discussed.

Modules Course Sparx Systems Enterprise Architect

Module 1 : EA Intro	Module 2 : Requirements and Use Cases	Module 3 : Domain Modeling
What is Enterprise Architect?	Understanding Requirements	Conceptual Classes
UML Modeling Tool of Choice	Vision Documents	UML Notation and Classes
Share Models	Functional Requirements	Associations
Capture Requirements	Non-Functional Requirements	Roles in Associations
Generate Documentation	Requirements Classification	Multiplicity
Code Generation	Use Cases and Actors	Generalization and Specialization
Reverse Engineering	System Context Diagram	Aggregation and Composition
MDA Transformations	Identifying Use Cases	Attributes
Model Databases	Scenarios	Mapping to Databases
Link EA to IDE's	Structuring Use Case Model	Live Databases Connections
MDG Technologies	include and extends	Mapping to XML Schema
Module 4 : Interaction Diagrams	**Module 5 : MDG Technologies**	**Module 6 : MDA Transformations**
Realizing Requirements	MDG Products	What is MDA?
From Analysis to Design	MDG Technologies	MDA Directions
Object Sequence Diagrams	Business Process Modeling	MDA Helicopter View
Responsibilities and Methods	BPM Simulations	Platform Models
Class Responsibilities	Architecture Modeling	Basic Principles of MDA
Class Collaborations	Archimate	Building MDA Applications
Interaction Modeling	Standard Models	Platform Specific Model
Collaboration Diagrams	MDG for Testing	Marking a Model
Translate System Operations	SysML	Model Transformations
Diagram Notations	SoaML	Generate Implementation
Sequence Diagrams	Gang of Four Patterns	Supported Languages