



Systems Engineering with SysML & Sparx Systems Enterprise Architect

The Systems Engineering with [SysML](#) & Sparx Systems Enterprise Architect training course is aimed at Systems Engineers who want to quickly gain a proficiency in the use of [Sparx Systems Enterprise Architect](#) (EA) to create system models using the Systems Modelling Language (SysML). The course covers an overview of the Systems Engineering process, how [UML](#) and SysML differ, the complete SysML modelling notation and how to use SysML with EA.

What will I learn on the Systems Engineering with SysML & EA training course?

After completing the course you will have gained an understanding on the [SysML](#) modelling notation and its application to Systems Engineering. In addition you will be able to create System models using [Enterprise Architect](#) and SysML.

Systems Engineering with SysML & EA; Course Content

- Overview of the System Engineering Process
 - Stages and main tasks
- Comparison of UML and SysML
 - The similarities and differences between UML and SysML
- Introduction to the SysML diagram types
- Introduction to Enterprise Architect
- Structure and organisation of the Sparx Systems Enterprise Architect (EA) modelling tool
- SysML Diagrams
 - Requirement Diagram
 - Block Definition Diagram
 - Internal Block Diagram
 - [Use Case](#) Diagram
 - Activity Diagram
 - Sequence Diagram
 - State Machine Diagram
 - Parametric Diagram
- SysML Modelling Elements
 - Allocations
 - Rationales
 - Diagram Frames
 - Model Views and Viewpoints
 - Problem
- Project Documentation using Enterprise Architect
 - How to produce HTML and RTF documentation using EA documentation generator
 - How to customize the documentation produced by EA documentation generator



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This course is supplemented by looking at Case Studies.

For more information on the **Systems Modelling Language** why not visit our “What is SysML?” page.

Dunstan Thomas recommends the use of [Sparx Systems Enterprise Architect](#) as your modelling tool, **Ultimate & Systems Engineering editions include the MDG SysML Integration.**