



Introduction to SysML

Course Background:

SysML is a visual modeling language, derived from the UML, particularly intended for the model based development of software intensive systems. The SysML system modeling language is specified and developed by the OMG (Object Management Group) and is supported by INCOSE (International council for System Engineering). The modeling language particularly enables the systematic application and documentation of design logic.

Course Benefits:

This one day introductory course intends to provide an overview of the various SysML modeling techniques, using simple examples from the automotive and infrastructure domains. Particular attention is paid to modeling software in conjunction with mechanical and electrical engineering aspects. After completion of the course, participants will:

- have basic knowledge of the various diagramming techniques.
- understand and appreciate the added value of the use of SysML and
- understand the position of SysML compared to other modeling techniques.

Who will benefit from this course?

- Software and system engineers involved in the development of complex software intensive system

Course format:

Teaching Method: Lectures, examples and guided discussions.
Teaching material: Copies of presentations, text of cases, articles, books (if desired)
Language: English or Dutch

Course Contents:

Course duration: 1 day

- Introduction to SysML
- Modeling requirements.
- Setting up a project.
- Modeling system structure with SysML:
 - making Block Definition Diagrams and Internal Block Diagrams
- Modeling system behavior with SysML:
 - state machines and sequence diagrams
- Modeling system constraints and performing trade studies with SysML:
 - modeling with Parametric Diagrams
- Modeling behavior with activity diagrams
- Modeling software versus hardware aspects of a system.

Our Trainer

Our trainer is Advanced OMG Certified Systems Modeling Professional (OCSMP). Mithun, influencing member of the OMG, is content developer for the OCSMP program.

Additional Options:

Please indicate any desired options when signing up for this course, or contact your account manager.

Terms and conditions:

The standard terms and conditions of Mithun Training & Consultancy are applicable. We will send you a copy on request.

