

## Capella 5.0 in Action (4 days)

Systems engineers have been making use of modeling techniques for a long time. Based on both Functional Analysis and the SysML language, **Arcadia** (Architecture Analysis and Design Integrated Approach) is a model-based engineering method aimed at defining and validating the architecture of complex systems. After having tested the method internally, and developed an accompanying workbench, Thales has decided to make it public, through the **Capella** tool (inside the Eclipse community).

This in-depth practical training will enable you to discover the ins and outs of the **Arcadia** method and its associated modeling language. We will mostly focus on the benefits of a workbench adapted to the method, through a complete case study performed with the open-source **Capella 5.0** tool. A language, an approach, a tool: these are the three pillars needed for the success of the Model Based Systems Engineering (**MBSE**).

**Duration: 4 days** (8 sessions of 3.5h)

**Audience:**

Project managers, architects, system engineers,  
wishing to learn how to use efficiently the Capella tool

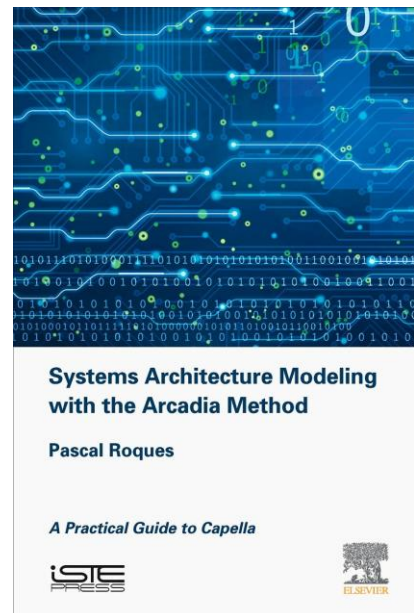
**Prerequisite:**

Experience in System Engineering

**Teaching Method:**

Theoretical presentation with examples (25%)

Complete Case Study realized with Capella 5.0  
under the guidance of the trainer (75%)



## Pedagogical Program

### Introduction

Systems Engineering  
What is a Model?  
MBSE

Logical Architecture

*Case Study #4 with Capella 5.0*  
*LAB, LES, LMSM, etc.*  
*System-Subsystem Transition*

### Arcadia/Capella Principles

Arcadia 5 Architecture Levels  
Main Concepts & Diagrams  
Main Tool Features

Physical Architecture

*Case Study #5 with Capella 5.0*  
*PAB, PDFB, PFCD, etc.*  
*REC/RPL, Library*

### Arcadia/Capella in Action

Case Study Presentation  
Operational Analysis  
*Case Study #1 with Capella 5.0*  
*OAIB, OAB, OEBD, etc*

Complements (add-ons, etc.)

### Conclusion

Summary  
Best Practices

System Analysis

*Case Study #2 with Capella 5.0*  
*SAB, SDFB, SFCD, SFBD, etc*  
*Case Study #3 with Capella 5.0*  
*SES, SMCB, SMSM, SCDB, etc*

