

Capella Reader (2 days)

The ever-increasing complexity of modern systems has a direct impact on product quality, time to market and operational efficiency. Model-based Systems Engineering (**MBSE**) offers significant opportunities for improving productivity and quality. It addresses the challenges of complex systems engineering, such as encouraging reuse and managing product lines.

This introductory training will enable you to discover the ins and outs of the **Arcadia** (Architecture Analysis and Design Integrated Approach) MBSE method, initially developed by Thales for its own needs. Through a realistic example commented by the trainer, we will learn to read and criticize **Capella** diagrams from Operational Analysis to Physical Architecture of a system through System Analysis and Logical Architecture. A language, an approach, a tool: these are the three pillars needed for the success of MBSE.

Duration: 2 days

Audience:

Project managers, architects, system engineers, wishing to be able to read and criticize diagrams produced with the Capella tool and the Arcadia method

Prerequisite: First experience in System Engineering

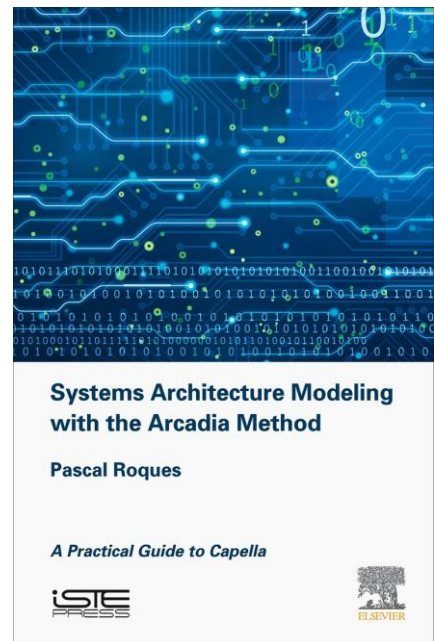
Teaching Method:

Theoretical presentation

Realistic example commented by the trainer

Group reflection on exercises

Capella tool demonstrations by the trainer



Program

Introduction

System Engineering
MBSE

Overview of Arcadia

Main Concepts
First example

Operational Analysis (OA)

Concepts and diagrams
Commented example #1

System Analysis (SA)

Concepts and diagrams
Commented example #2

Logical Architecture (LA)

Concepts and diagrams
Commented example #3

Physical Architecture (PA)

Concepts and diagrams
Commented example #4
Architecture Evaluation
EPBS
Commented example #5

Conclusion

