SAMARES
LEARNING CENTER

TRAINING CATALOGUE

Spring 2026

V 1.3

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PRESENTATION

Samares Engineering offers consulting / engineering activities — APE code 7112 B, and is positioned as an expert in disseminating systems engineering best practices.

Our areas of expertise include model-driven approaches, particularly for describing system architecture, as well as requirements management and traceability, functional simulation, and the link between architecture and other disciplines such as software and functional safety.

In addition to our training Programs, we offer comprehensive support to meet your needs:

- Technical support: responsiveness and reliability for your day-to-day needs
- Consulting: personalised support from our experts to optimise your projects, define best practices and guide your strategic decisions.
- TWC Installation: complete setup and configuration of your TWC solutions, handled by our experts for smooth and efficient integration

THEY TRUST US





Raphaël Faudou
President, Systems Engineering and Modelling Consultant

PRESENTATION

Samares Learning Center is the registered name for our training activities. We offer a range of courses spanning from the discovery of SysML notation to hands-on learning of the MBSE approach and its tools, as well as training on various topics related to systems engineering in general, including Arcadia/Capella and product line management. We also offer advanced modules to go further in these areas.

With a strong reputation for extensive training experience, we provide both inter-company and intra-company training for businesses, as well as initial training for higher education institutions.

Our teaching team brings together experts in the field of systems engineering, particularly in the SysML language, the Catia Magic tool, the Arcadia method and the Capella tool, and product lines capable of designing, analysing and managing complex systems, combining theoretical knowledge, practical skills and a collaborative approach.

Our team of trainers stands out for its human richness and diversity, where each background, culture and experience nourishes an inclusive and collaborative learning environment, fostering the fulfilment of all learners.

70 trainees trained in 2022, 176 trainees trained in 2023, 224 trainees trained in 2024 and 233 trainees trained in 2025 with an overall satisfaction rate of 8.8/10.

Samares Engineering thanks you for your loyalty and trust.

FINANCING

Qualiopi processus certifié

RÉPUBLIQUE FRANÇAISE

La certification qualité a été délivrée au titre de la ou des catégories d'actions suivantes :
Actions de formation

Since May 2021, Samares Engineering has been a Qualiopi-certified training organisation for its training activities. This certification attests that Samares Engineering meets the quality requirements for professional training and that its training offerings can be funded by skills operators (OPCO).

To do so, **a financial support request must be submitted by the employer** or the employee wishing to participate in a training, to their OPCO, **no later than one month before the start of the training**. This request must be accompanied by the training Program summarising the schedule, a training agreement and the invoice. **These documents are provided by Samares Engineering upon registration**.

Before training

Training Agreement + Training Program → **Request for OPCO Funding**

After training

Signed Attendance Sheet + Completion Certificates → **Reimbursement Request**

OUR TRAINING PROGRAMS

DELIVERY MODES

In-person training :
2 avenue de l'Escadrille Normandie Niemen, Ethics Biotope
31700 Blagnac

Remote training :
An email containing the Microsoft Teams link to connect is sent approximately 7 days before the training date

2 FORMATS

- **INTER: dates set by Samares Engineering, session open to participants from multiple companies**
- **INTRA: single company, dates to be agreed with the company**

OUR PREMISES

The premises of Samares Engineering are located at the Biotope, a short distance from the airport.

2 avenue Escadrille Normandie Niemen, Ethics Biotope
31700 Blagnac



PRACTICAL INFORMATION

How to register

You can send us an email at **training@samares-engineering.com** or visit our online catalogue: **samares-engineering.catalogueformpro.com**

We invite you to visit the training management portal to find out the upcoming session dates in INTER format. You also have the option of requesting a training in INTRA mode, meaning a session exclusively for your company.

The registration deadline for training courses is two weeks before the training start date.

Our trainers can deliver sessions in French or English depending on your needs. We ask that you send your request at least 2 weeks before the training start date.

Adaptation and Accessibility

All our training rooms are accessible to people with reduced mobility. If you have specific learning accommodation needs, please let us know at the time of your registration request, at least three weeks before the start of the training, and we will do our best to accommodate your needs.

Health and Safety Measures

In-person training follows a health and safety protocol put in place for the protection of everyone, updated:

- In line with developments in the health situation.
- In line with developments in health restrictions and measures. Depending on changes, a change in health conditions after registration is possible.

Postponement and Cancellation

Samares Engineering reserves the right to cancel a training session, or to reschedule it to a later date, due to insufficient enrolment. If this occurs, registered participants will be informed at least 7 days before the initially scheduled training date.

OUR TRAINERS



IDA ELECTRA DAHL
Ida has been working as a systems engineer since 2018.
Her areas of expertise include SysML modelling with Catia Magic tools, using various methods, as well as the use of Capella/Arcadia and product line management.
In addition to delivering training, she provides support and coaching for clients in various sectors: automotive, space, maritime and energy.
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MOURAD CHIBANE
Mourad is an MBSE engineer. He has participated in several systems engineering projects, covering methodology, modelling and training aspects. He has a strong command of Cameo Systems Modeler / MagicDraw / Magic Cyber Systems Engineer and their link with the 3D experience platform.
mourad.chibane@samares-engineering.com



RAPHAEL FAUDOU
Raphaël teaches and supports the deployment of MBSE in industry and has developed solid expertise in the use of Cameo Systems Modeler and Cameo Simulation Toolkit. He is very active on the MBSE subject through committees, articles at conferences and posts on LinkedIn
raphael.faudou@samares-engineering.com



MAYSSA CHEBBI
Mayssa holds a PhD in systems engineering, with a thesis focusing on the decontamination of industrial sites applying SE (Systems Engineering) and MBSE (Model-Based Systems Engineering) disciplines. She specialises in modelling and optimisation methods of industrial processes to improve durability and efficiency. In addition to her research, Mayssa delivers training on these subjects, sharing her expertise with professionals from various industrial sectors. Her work contributes to the advancement of SE and MBSE practices in industry.
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KEVIN GANEASAN
Kevin is a systems and MBSE engineer. Passionate about this field, he has experience in the SysML language implemented across various tools and the ARCADIA methodology with the Capella tool. In addition to delivering Capella training, he provides support both in modelling with Capella and in SysML modelling aspects.
kevin.ganeasan@samares-engineering.com

OUR TRAINERS



CHRIS KOYESSE
Chris is a complex systems engineer. He holds the position of junior consultant engineer in consulting and modelling, in addition to being a trainer. His MBSE skills combine a solid academic background with practical experience in methodology and modelling aspects in a reverse engineering context using the Capella/Arcadia tool.
chris.koyesse@samares-engineering.com



NAGARJUN ANCHE MURALI
Nagarjun, a systems engineer and ASEP-certified professional, holds a master's degree in systems engineering. His expertise includes SysML and Arcadia, using tools such as Cameo Systems Modeler (Catia Magic) and Capella. Beyond participating in various projects, he has actively worked with methodologies and maintains a strong interest in learning new technologies in order to strengthen his skills in the field of systems engineering.
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JULIEN TORRES
JJulien is an expert in the field of systems engineering with 20 years of experience in systems engineering consulting and support, including various methodologies, using SysML with Catia Magic and associated plugins, including MBPLE across various frameworks such as MOFLT (Airbus) and tailoring methods to the client context. He also delivers training on systems engineering, Cameo Systems Modeler / Catia Magic (SysML tool) and product line engineering.
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GUILLAUME LANFREY
Guillaume, an MBSE engineer since 2018, has contributed to numerous projects in various sectors such as defence, aeronautics, rail and automotive. A specialist in Cameo System Modeler, CAPELLA and the ARCADIA method, he has experience in both modelling aspects and methodological aspects, particularly in adapting existing frameworks to implement reverse engineering approaches. In addition to his training activities, Guillaume offers consulting services in applying the ARCADIA method and using CAPELLA.
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JOSE LAMEH
José is an industrial and complex systems engineer with solid expertise in product line engineering (PLE). He holds a doctorate focused on PLE for systems engineering. His background combines both academic and industrial contexts, combining teaching and R&D activities with practical experience in methodological development and field deployment. He has actively contributed to the deployment of PLE practices, helping organisations to structure and optimise their engineering approaches, with experience covering both the education and automotive sectors.
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OUR INTER TRAINING SESSIONS - Q1 2026

SE-SEF-01: MBSE IN PRACTICE WITH MAGICGRID

5 January 2026
2 February 2026
3 March 2026

SE-MBSYS-01: SYSML DISCOVERY

8 au 9 January 2026
5 au 6 February 2026
5 au 6 March 2026

SE-MBSYS-03: MBSE EN PRATIQUE AVEC MAGICGRID

13, 14, 20, 21 January 2026
10, 11, 17, 18 February 2026
17, 18, 24, 25 March 2026

SE-CSM-02: INTRODUCTION TO SYSML AND CATIA MAGIC

12 January 2026
9 February 2026
4 March 2026

SE-CSM-04:INTRODUCTION TO SIMULATION WITH CATIA MAGIC

26 January 2026
23 February 2026
23 March 2026

SE-SOS-UAF:INTRODUCTION TO UAF

15 January 2026
12 February 2026
12 March 2026

OUR INTER TRAINING SESSIONS - Q1 2026

SE-MBARC-02: MBSE IN PRACTICE WITH ARCADIA AND CAPELLA

15, 16, 22, 23 January 2026
12, 13, 19, 20 February 2026
12, 13, 19, 20 March 2026

SE-SV2-01: INTRODUCTION TO SYSML V2

6 au 7 January 2026
3 au 4 February 2026
10 au 11 March 2026

SE-PLE-01: INTRODUCTION TO PRODUCT LINE MANAGEMENT WITH PURE::VARIANTS

19 January 2026
16 February 2026
16 March 2026

SE-PLE-03: INTRODUCTION TO PRODUCT LINE MANAGEMENT WITH MBPLE

30 January 2026
24 February 2026
31 March 2026

SE-MBSYS-02: MBSE IN PRACTICE WITH SYSML AND CATIA MAGIC

27, 28, 29 January 2026
25, 26, 27 February2026
25, 26, 27 March 2026

SE-SAF-01: INTRODUCTION TO SAFETY ANALYSIS

8 January 2026
5 February2026
9 March 2026

OUR TRAININGS

SAMARES
LEARNING CENTER



FUNDAMENTALS OF SYSTEM ENGINEERING

87 trainees
Satisfaction score : 8.8/10

SE-SEF-01

Last update :
January 2026

Version : 1.4



TRAINERS



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DESCRIPTION

Learn how to:

- Know the interest of the discipline of Systems Engineering (IS)
- Know how to use the key concepts of Systems Engineering
- Be able to list and differentiate standard technical processes (ISO 15288:2015 – SE HandBook V4)
- Know how to use a requirements engineering and planning approach for the development of a complex system

OBJECTIVES



At the end of the training, the trainee will be able to:

- Describe the interest of the discipline of Systems Engineering
- Use key Systems Engineering concepts
- Know how to list and differentiate standard technical processes (ISO 15288:2023 – SE HandBook V5)
- Use a requirements engineering and system architecture for complex system development



REQUIREMENTS

None



TARGET PUBLIC

This training targets in particular :
All public

CHARACTERISTICS OF THE TRAINING

DURATION

1 days (7h) ; can be split into 2 half days of 3,5 hours

TRAINING MÉTHODS

- Theoretical presentation (slides), discussion, practical exercises with the tool
- Questionnaires to check the acquisition of essential notions
- End-of-training evaluation based on practical exercises
- End of training certificate

MATERIALS

Each participant must have a way to connect to the internet in order to access the training management portal.

PRICING

PRICE EXCL. VAT (20% VAT):
– INTER Session: €1,000 per trainee (Reduced to €775 for each additional trainee from the same company)
– INTRA Session: €2,350 for 3 to 8 trainees from the same company

- Additional cost if delivered at our premises (room booking and lunch included): €90 / day per participant
- Travel expenses charged extra if delivered at your premises

Access timeframe: see Practical Information p.8

PROGRAM

INTRODUCTION

- Differences between System and Product

WHY LEARN SYSTEMS ENGINEERING?

- Final products are more and more complex
- Pressure on time is rising

INDUSTRY JOURNEY TOWARD SE

- Recommendations of French industry
- CSDM 2019 conference – industry and SE

RISKS OF NOT APPLYING SE PRACTICES

- Satisfaction of stakeholders
- Examples of Systems Engineering failures

SE KEY DEFINITIONS AND STANDARD PROCESSES

- Systems Engineering history – Key milestones
- ISO 15288
- Key Systems Engineering Concepts

BUSINESS OR MISSION ANALYSIS

- Overview of ISO 15288:2023
- Measures Of Effectiveness

REQUIREMENT ENGINEERING

- Stakeholder Needs and Requirements Definition
- System Requirements Definition
- ISO 29148 standard

ARCHITECTURE, ANALYSIS AND DESIGN

- Architecture Definition
- System Analysis
- Design Definition

VERIFICATION AND VALIDATION

- Verification vs Validation concepts
- Verification & Validation targets

SYSTEMS ENGINEERING MANAGEMENT

- Introduction to Configuration Management
- Systems Engineering Management Plan (SEMP)

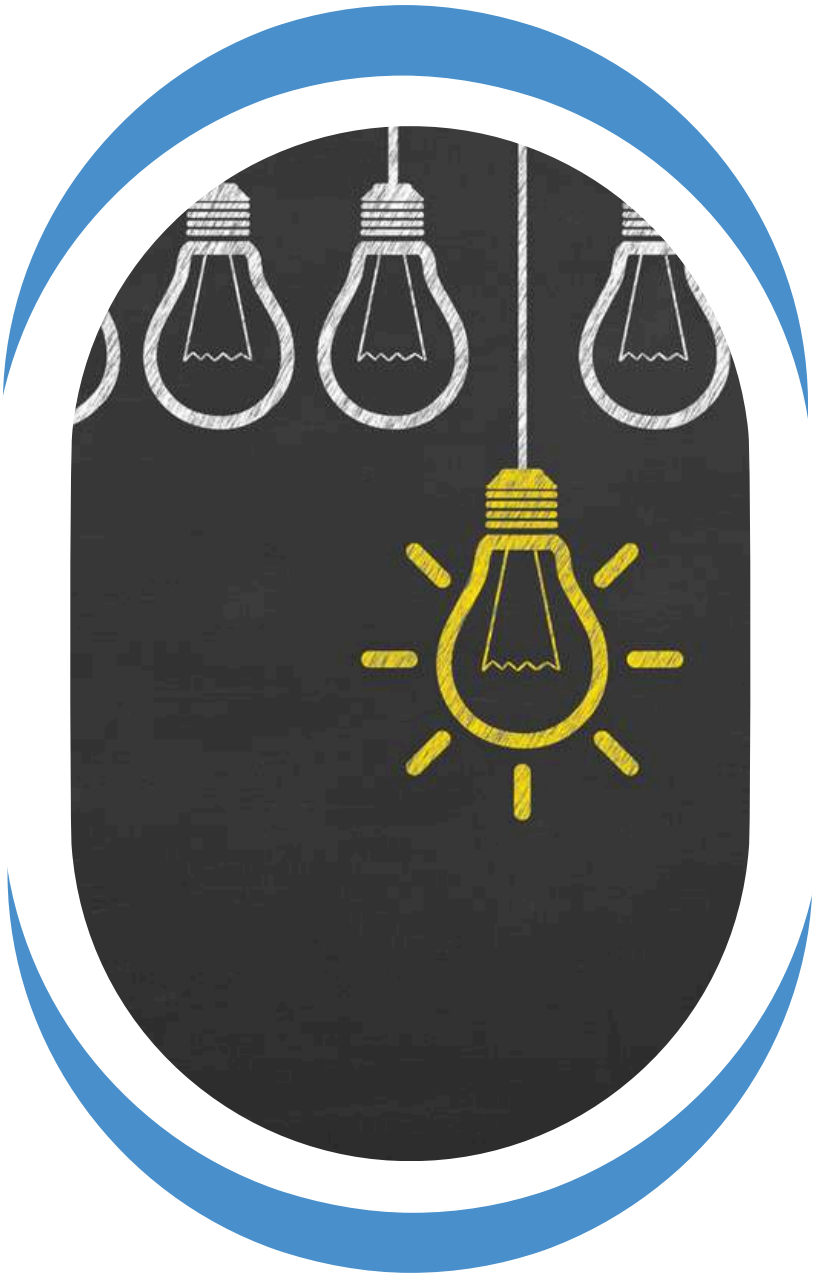
FUNCTIONAL ANALYSIS FOR GOOD REQUIREMENTS

31 trainees
Satisfaction : 8.1/10

SE-SEF-02 & SE-SEF-02-MB

Last update
January 2026

Version : 1.3



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DESCRIPTION

This training will guide you to switch from “system” level requirements to software or hardware requirements through the identification and analysis of functions and the building of a functional architecture. You will see that this approach helps in deriving good quality requirements.
This training can be delivered in two versions

- A version without tool (SE-SEF-02) during 1,5 day, with practice on paper board to instantiate the approach.
- A version with modeling tool (SE-SEF-02-MB) during 2 days, with mapping of the approach on modeling concepts and the use of Catia magic tool to support modeling of functions and functional architecture.

GOALS



At the end of the training, the trainee will be able to:

- Transition from a set of functional requirements to a set of functions and a functional architecture that satisfies those functional requirements
- Derive functional and interface requirements from a functional architecture allocated to software and hardware components



REQUISITES

- Know the foundations of systems engineering (SE-SEF-01)

For SE-SEF-02-MB only:

- get some basics of using a modeling tool like Catia Magic (SE-CSM-02)



TARGET PUBLIC

This training is suited for

- systems engineers and especially system architects

TRAINING FEATURES

DURATION

1,5 days (10,5 hours) for SE-SEF-02 and 2 days (14 hours) for SE-SEF-02-MB
Both trainings can be split into half days

TRAINING METHOD

- Theoritical presentation (slides), discussion (sharing) on key questions (exercises)
- Questionnaires to check essential concepts
- Final evaluation based on the assessment of practical exercises by the trainer
- end of training certificate

MATERIAL

Each participant shall have means to connect to the training portal (Digiforma).
For SE-SEF-02-MB, each participant shall bring a computer with Catia Magic tool installed on it and with a valid license. Samares will not provide tool or license.

TARIFS

PRIX HT (TVA à 20%) :
- **SE-SEF-02** – Session INTRA : 3 050 € for 3 to 8 trainees of the same company
- **SE-SEF-02-MB** – Session INTRA : 4 100 € for 3 to 8 trainees of the same company

- Additional cost if the training is delivered in our premises (room to book and lunch to offer : 90 € / day for each participant
- travel expenses to add if the training takes place in your premises

Timing to register : see practical information p.8

PROGRAM

INTRODUCTION

RECALL ON STAKEHOLDER AND SYSTEM REQ

- Differences
- Characteristics of a good requirement
- Issues with direct derivation

TECHNICAL FUNCTIONS

- Identification of technical functions
- Breakdown of technical functions
- Functional architecture

FUNCTIONNAL ANALYSIS OVERVIEW

- Motivations
- Identification of stakeholders
- Scenarios
- Operations and internal functions

FUNCTIONS PARTITIONING

- Identification of components
- Partition of functions on components
- Derivation of internal interfaces
- Derivation of requirements

CHARACTERIZATION OF FUNCTIONS

- Characterization of operations and functions with modes
- Sizing criteria
- Performance
- Derivation of requirements

REALIZATION OF COMPONENT

- Physical realization of a component
- Detailed design
- Derivation of requirements

PREPARATION FOR VERIFICATION

CONCLUSION

PLANNING AND EXECUTION OF IVV

28 trainees
Satisfaction rate : 8.3/10

Last update:
January 2026

Version : 1.3

SE-SEF-03



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DESCRIPTION

This training will enable you to plan and execute an integration, verification and validation strategy. You will learn how to define the strategy, define verification and validation procedures, and manage results and any errors during execution.

OBJECTIVES



By the end of the training, participants will be able to:

- Build an integration, verification and validation strategy
- Set up a verification plan
- Handle errors during verification

PREREQUISITES

- Knowledge of Systems Engineering basics (SE-SEF-01)

TARGET AUDIENCE

This training is aimed in particular at:

- IVV architects and teams

TRAINING CHARACTERISTICS

DURATION

1 day (7 hours): can be split into 2 half-days of 3.5 hours each.

EQUIPMENT

Each participant must have a means of connecting to the internet in order to access the training extranet (Digiforma).

TRAINING METHOD

- Theoretical input (slides), discussion and Q&A (exercises)
- Quizzes to verify the acquisition of key concepts
- Final assessment based on the trainer's evaluation of practical exercises
- Certificate of completion

PRICING

PRIX HT (TVA à 20%) :
– INTRA session: €2,450 for 3 to 8 trainees from the same company

- Additional cost if hosted at our premises (room reservation + lunch included): €90 / day per participant
- Travel expenses added if hosted at your premise

Timing to register : see practical information p.8

PROGRAM

INTRODUCTION

DECISION GATES AND BASELINES

- System life cycle
- Introduction to Configuration Management

IVV PREPARATION

- V&V Recall
- IVV strategy
- Verification & Validation: How?

IVV EXECUTION

- Verification report
- Change Request - Change Proposal

QUICK INTRODUCTION TO SAFETY ASSESSMENT

- Safety General Introduction
- Overview of safety standards
- Overview of safety assessment approaches
- Risk assessment

INDUSTRIAL QUALIFICATION

- Qualification of the definition
- Qualification of the production system
- Qualification of the operational system

FROM TRANSITION TO DISPOSAL

- Transition
- Operation
- Maintenance
- Disposal

WRAP-UP

NEW

COMPLETE PACK SYSTEMS ENGINEERING

17 traineers
Satisfaction rate : 8.8/10

SE-SEF-PACK

Last updated:
January 2026

Version : 1.1



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DESCRIPTION

Want to understand the challenges of systems engineering, and how to apply and integrate it into your current processes? This option includes three training courses: "Fundamentals of Systems Engineering" (SE-SEF-01), "Functional Analysis for Quality Requirements with a Model" (SE-SEF-02-MB), and IVV Planning and Execution (SE-SEF-03). With this bundle, you benefit from an advantageous price of €7,300 instead of €8,700, a saving of €1,400.

Please refer to each training program for its description, objectives, and curriculum.
me.

PREREQUISITES

Knowledge of the Catia Magic tool (SE-CSM-02)

TARGET AUDIENCE

This training is aimed particularly at:

- Systems Architects

CHARACTERISTICS OF THE TRAINING

DURATION

4 days (28 hours)

MATERIALS

Each participant must bring their own PC with Catia Magic already installed and licensed; we do not provide tools or licenses. The PC must be able to connect to the internet to access the training extranet (Digiforma).

TRAINING MÉTHODS

- Theoretical input (slides), discussion and Q&A (exercises)
- Quizzes to verify the acquisition of key concepts
- Final assessment based on the trainer's evaluation of practical exercises
- Certificate of completion

PRICING

Price excl. VAT (20% VAT applicable):
– INTRA session: €7,500 for 3 to 8 trainees from the same company

- Additional cost if hosted at our premises (room reservation + lunch included): €90 / day per participant
- Travel expenses added if hosted at your premises

Timing to register : see practical information p.8

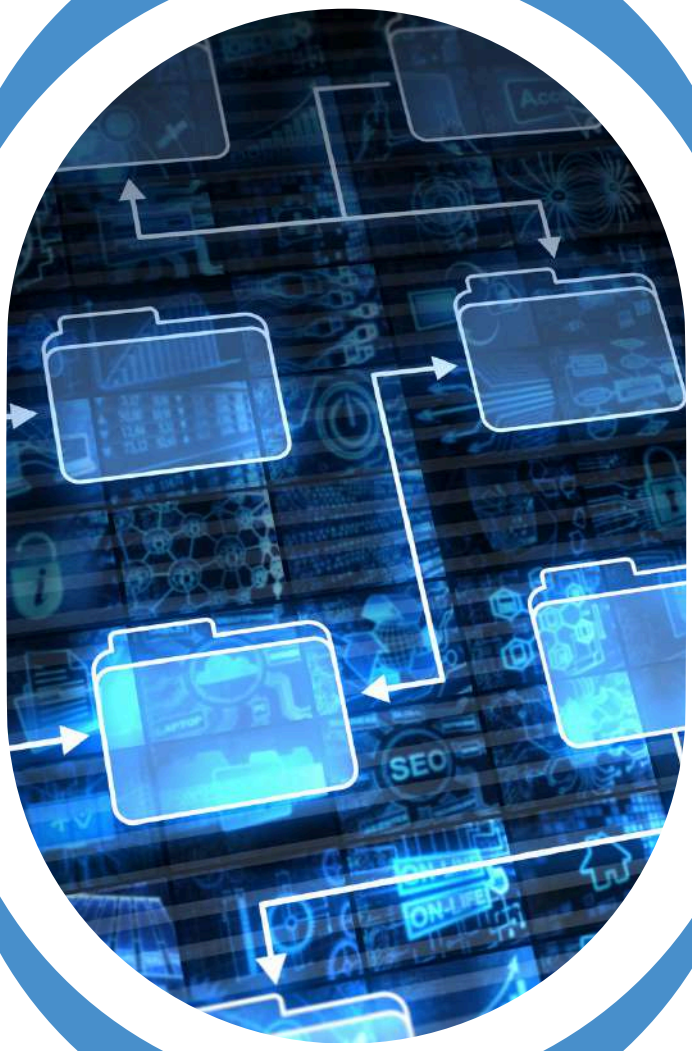
SYSML DISCOVERY

13 trainees
Satisfaction score : 8.7/10

Last update :
Janvier 2026

Version 1.4

SE-MBSYS-01



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DESCRIPTION

Want to learn the basics of SysML independently of any specific method? Through this training, learn the SysML notation, as well as the purpose and use of each diagram in the development cycle. The training includes hands-on exercises using a tool.

CASE STUDY

- UAV for agriculture as a system of interest
- Initial requirements provided in an Excel table
- Case Study Exercises

OBJECTIVES

At the end of the training, the trainee will be able to:

- Use the main concepts and diagrams of SysML notation
- Apply a hands-on approach to choosing SysML diagrams to use in the development lifecycle

PREREQUISITES

None ; Knowledge of the concepts of requirement and desirable function

TARGET PUBLIC

This training targets in particular : System Engineers, Architects, Designers, Project Managers who want to discover SysML and its practical use

CHARACTERISTICS OF THE TRAINING

DURATION

2 days (14 hours): can be split into 4 half-days of 3.5 hours each.

MATERIALS

Each participant must bring their laptop with Microsoft Visio to make the SysML diagrams.
Possibility to install the Dassault Systéme Cameo Systems Modeler V19 SP4 tool with a license provided by the trainer only for training.

TRAINING METHODS

- Theoretical input (slides), discussion, hands-on exercises with the tool
- Quizzes to verify the acquisition of key concepts
- Final assessment based on the trainer's evaluation of practical exercises
- Certificate of completion

PRICING

Price excl. VAT (20% VAT applicable):
– INTER session: €1,800 per trainee (reduced to €1,400 for any additional trainee from the same company)
– INTRA session: €4,100 for 3 to 8 trainees from the same company

- Additional cost if hosted at our premises (room reservation + lunch included): €90 / day per participant
- Travel expenses added if hosted at your premises

Timing to register : see practical information p.8

PROGRAM

INTRODUCTION

- What is a model?
- What is MBSE?
- Origin and objectives of SysML
- Overview of the SysML diagrams
- The necessity of a methodology

REQUIREMENT MODELING

- Use Case Diagram
- Sequence Diagram
- Requirement Diagram
- Case Study #1

STRUCTURAL MODELING

- Package Diagram
- Block Definition Diagram
- Internal Block Diagram
- Case Study #2

DYNAMIC MODELING

- Activity Diagram
- State-Machine Diagram
- Model simulation (diagram animation)
- Case Study #3

TRANSVERSAL MODELING

- Parametric Diagram
- Allocation and traceability
- Feedback on the requirements
- Case Study #4

CONCLUSION

- The benefits of MBSE
- Overview of available SysML tools

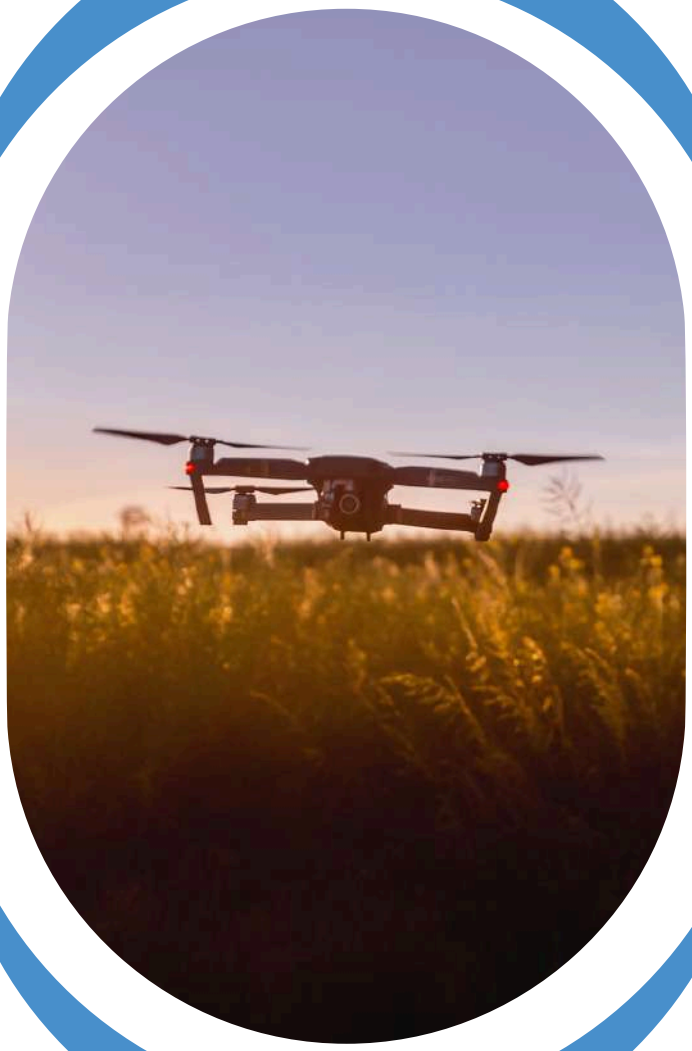
MBSE IN PRACTICE USING SYSML AND CATIA MAGIC

SE-MBSYS-02

55 Trainees
Satisfaction score : 9.3/10

Last update :
January 2026

Version : 1.4



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DESCRIPTION

Learn a practical MBSE approach from stakeholder needs collection through to the definition of the physical architecture. The training is based on the technical processes of ISO 15288:2023 for the development phase, and on the use of SysML notation for the overall system definition.

CASE STUDY

- UAV for agriculture as a system of interest
- Initial Excel requirements
- Case Study Exercises
- Using the Cameo Sytsems Modeler / Magic Cyer Systems Engineer modeling tool

OBJECTIVES

By the end of the training, the trainee will be able to:

- Use the main concepts and diagrams of SysML notation to support system model development.
- Create a system model using Cameo Systems Modeler / Magic Cyber Systems Engineer with an approach based on five of the technical processes of the ISO 15288:2023 standard.
- Use several of the key features of Cameo Systems Modeler / Magic Cyber Systems Engineer to support system model development.

PREREQUISITES

A basic knowledge of requirements engineering and the technical processes of ISO 15288 is desirable.

TARGET PUBLIC

This training targets in particular : System Engineers, Architects, Designers, Project Managers who want to deploy MBSE in their team

CHARACTERISTICS OF THE TRAINING

DURATION

3 days (21 hours) : can be split into 6 half days of 3.5 hours

TRAINING METHODS

- Theoretical presentation (slides), discussion, practical exercises with the tool
- Questionnaires to check the acquisition of essential notions
- End-of-training evaluation based on practical exercises
- End of training certificate

MATERIALS

Each participant must bring their laptop with the "Cameo Systems Modeler" or "Magic Cyber Systems Engineer" tool version 2026.x installed. If there is any problem with the installation or any doubt about the version, do not hesitate to contact us.

PRICING

Price excl. VAT (20% VAT applicable):
–INTER session: €2,300 per trainee (reduced to €1,800 for any additional trainee from the same company)
–INTRA session: €5,250 for 3 to 8 trainees from the same companye

- Additional cost for events on our premises (room reservation and lunch): €90 / day for each participant.
- Additional travel costs for events on your premises

Timing to register : see practical information p.8

PROGRAM

INTRODUCTION

- Overview of SysML
- Recall of the ISO 15288 standard
- Introduction to the Case Study
- Introduction to the tool
- Suggested project structure
- Introduction to the approach

STAKEHOLDER NEEDS AND REQUIREMENTS DEFINITION PROCESS

- Capture stakeholder requirements
- Identify external entities
- Identify key properties to evaluate solution viability throught simulation
- Define system context
- Detail Operational scenarios

SYSTEM REQUIREMENTS DEFINITION PROCESS

- Formalize functions
- Define Operational Modes
- system Requirements and traceability

DESIGN DEFINITION PROCESS

- Detailing the design of each component

ARCHITECTURE DEFINITION PROCESS

- Sub-systems identification
- Functional Architecture Definition and early simulation
- Physical Architecture Definition
- Architecture Traceability

SYSTEM ANALYSIS PROCESS

- Role of SysML and the Catia Magic tool to support this process

DESIGN DEFINITION PROCESS

- Verification of properties, comparison of solutions through simulation

OTHER CSM CAPABILITIES

- Document generation
- Language extensions (profile)
- Project Usage
- Validation Suites
- Teamwork Cloud

CONCLUSION

NEW

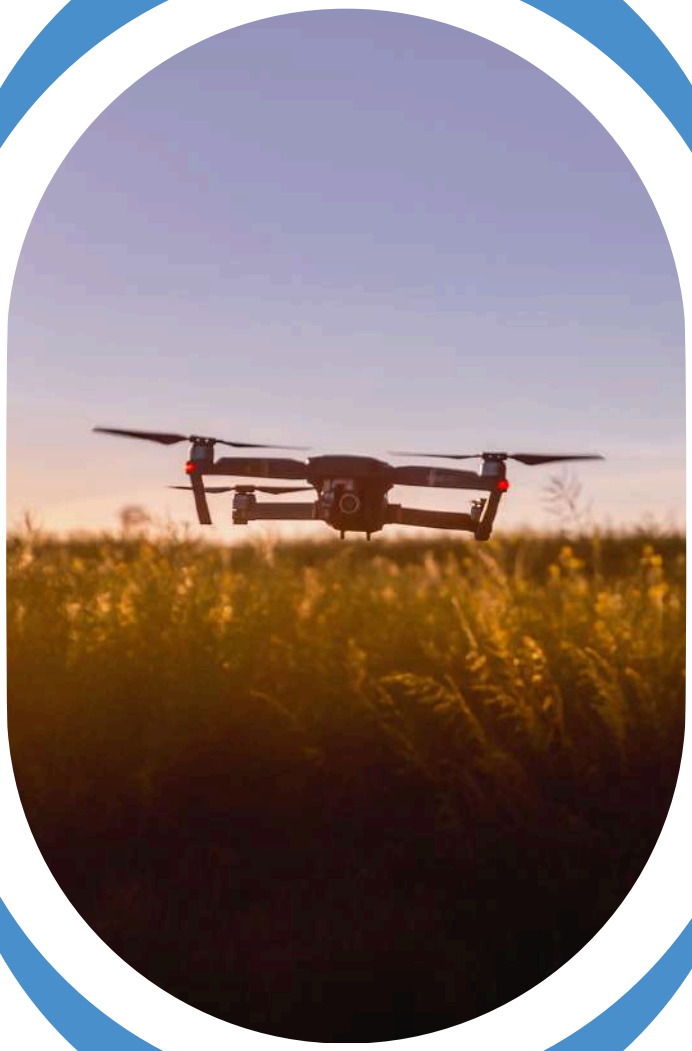
MBSE IN PRACTICE WITH MAGICGRID

SE-MBSYS-03

16 persons trained
Satisfaction rate: 9.2/10

Last update :
June 2026

Version : 1.3



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DESCRIPTION

Learn the MagicGrid approach to master the SysML V1 language with the Catia Magic tool, in order to be guided through the modelled definition of your system. MagicGrid complies with the technical processes of ISO 15288, and introduces all the necessary concepts to get you started in creating models of your systems, with hands-on exercises based on a case study..

OBJECTIVES

By the end of the training, the trainee will be able to:

- Create new MagicGrid projects and populate them in accordance with the MagicGrid V2 methodology.
- Correctly use the main concepts and diagrams of SysML notation in a MagicGrid context.
- Read and create the various SysML diagrams used by the MagicGrid V2 methodology.

PREREQUISITES

Basic knowledge of the Catia Magic tool and SysML, or having completed our Introduction to SysML and Catia Magic training (SE-CSM-02).

TARGET PUBLIC

This training is aimed particularly at: Systems Engineers, Architects, Designers and Project Managers who want to use Catia Magic within their team.

CHARACTERISTICS OF THE TRAINING

DURATION

4 days (28 hours): can be split into 8 half-days of 3.5 hours each.

MATERIALS

Each participant must bring their own PC with CSM or Catia Magic already installed and licensed; we do not provide tools or licenses. The PC must be able to connect to the internet to access the training extranet (Digiforma).

TRAINING METHODS

- Theoretical input (slides), discussion, hands-on exercises with the tool
- Quizzes to verify the acquisition of key concepts
- Final assessment based on the trainer's evaluation of practical exercises
- Certificate of completion

PRICING

Price excl. VAT (20% VAT applicable):

- INTER session: €2,950 per trainee (reduced to €2,300 for any additional trainee from the same company)
- INTRA session: €6,750 for 3 to 8 trainees from the same company

- Additional cost for events on our premises (room reservation and lunch): €90 / day for each participant.
- Additional travel costs for events on your premises

Timing to register : see practical information p.8

PROGRAM

INTRODUCTION TO MAGICGRID

- Introduction to MBSE
- Overview of the language SysML
- Introduction to the csm tool
- Introduction to the method MagicGrid
- Quiz

PROBLEM DOMAIN

- Analyze the system from a **black-box perspective**: stakeholder needs, system context, use cases, and measures of effectiveness.
- Deepen the analysis through a **white-box perspective**: functional analysis, conceptual subsystems, and traceability to stakeholder needs.
- Cas pratique : conception de l'architecture logique d'un drone agricole.

SOLUTION DOMAIN

- Build the **logical system architecture**: system requirements, structure, behavior, and parameters.
- Break down the logical architecture to the subsystem level: requirements, structure, behavior, and parameters.
- Develop the system configuration model and ensure traceability to system requirements

IMPLEMENTATION DOMAIN

- Define implementation requirements.
- Cas pratique : mise en œuvre d'un drone agricole dans un cadre réel.

ANNEX A :SAFETY & RELIABILITY

- Integrate FMEA analysis at the black-box, white-box, subsystem, and configuration levels.

SYSTEM OF SYSTEMS

- Positionner la MagicGrid dans la méthodologie de la grille UAF (Unified Architecture Framework).

CONCLUSION

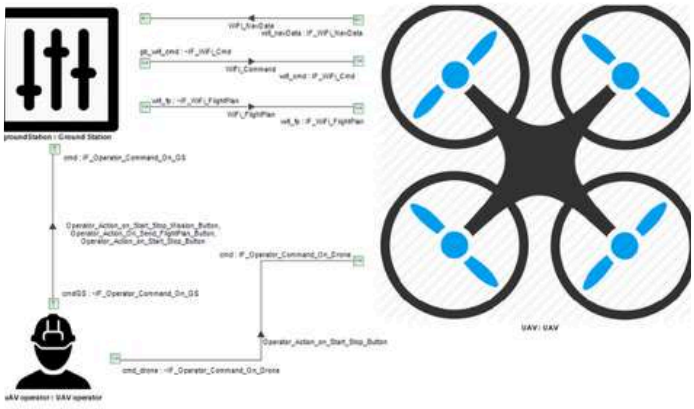
INTRODUCTION TO SYSML AND CATIA MAGIC

SE-CSM-02 & SE-CSM-02-P

55 Trainees
Satisfaction score : 9.1/10

Last update:
February 2026

Version : 1.4





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DESCRIPTION

Need to get to grips with the Catia Magic tool, but don't know where to start? This training is for you! You can choose between a one-day training without hands-on practice (SE-CSM-02), or two days with hands-on practice (SE-CSM-02-P). Both versions of this training introduce the most commonly used SysML concepts and diagrams, as well as tips and best practices for editing them in Catia Magic. The goal is to enable you to use the tool independently afterwards. The training is interactive through discussions and quizzes to ensure that key concepts are acquired, even if you opt for the one-day version.

OBJECTIFS

At the end of the training, the trainee will be able to:

- Recognize key SysML concepts and diagrams and indicate how they can support system model development
- Create a system model using Cameo Systems Modeler or Magic Cyber-Systems Engineer with creation, update, and deletion of SysML elements and diagrams
- TeamWork Cloud or Magic Collaboration Studio for collaborative work (get locks, make commits, update, create a branch)

PREREQUISITES

basic knowledge of requirements engineering and the ISO:15288 technical processes is recommended

TARGET PUBLIC

This training targets in particular System Engineers, Architects, Designers

TRAINING CHARACTERISTICS FOR IN-PERSON AND/OR REMOTE DELIVERY.

DURATION

1 day (7 hours) for SE-CSM-02 and
2 days (14 hours) for SE-CSM-02-MB. Both trainings can be split into half-days of 3.5 hours each.

TRAINING METHODS

- Theoretical presentation (slides), discussion, practical exercises with the tool
- Questionnaires to check the acquisition of essential notions
- End-of-training evaluation based on practical exercises
- End of training certificate

MATÉRIEL

Chaque participant doit avoir un moyen pour se connecter à l'internet afin d'accéder à l'extranet des formations (Digiforma).
Pour SE-CSM-02-P, chaque participant doit amener son PC avec un outil CSM ou Catia Magic avec licence déjà installé; nous ne fournissons pas d'outil ou de licence.

CAMEO SYSTEMS MODELER™

PRICING

Price excl. VAT (20% VAT applicable):

SE-CSM-02

- INTER session: €1,000 per trainee (reduced to €775 for any additional trainee from the same company)
- INTRA session: €2,350 for 3 to 8 trainees from the same company

SE-CSM-02-P

- INTER session: €1,600 per trainee (reduced to €1,250 for any additional trainee from the same company)
- INTRA session: €3,700 for 3 to 8 trainees from the same company

- Additional cost for events on our premises (room reservation and lunch): €90 / day for each participant.
- Additional travel costs for events on your premises

Timing to register : see practical information p.8

PROGRAM

INTRODUCTION TO SYSML

INTRODUCTION TO THE CSM TOOL

- Creation of a project
- Edition of elements and diagrams
- Quiz

WORKING ON A PROJECT COLLABORATIVELY: TWC

- Lock elements and diagrams, update and commit, create tags
- Quiz

SYSML NOTATION USING CSM

- Main principles of the notation
- Presentation of the various diagrams
- Quiz

BASIC DEFINITION OF A SYSTEM WITH SYSML

- The key processes and engineering artefacts
- Example of logics in the use of SysML diagrams

CONCLUSION AND PERSPECTIVES

CHARACTERISTICS OF E-LEARNING TRAINING

DESCRIPTION

- Want to learn how to use Cameo Systems Modeler / Catia Magic Cyber Systems Engineer at your own pace? Our e-learning version of this training is for you! It covers the basic concepts of the tool and SysML in an interactive and engaging way. You'll have access to this e-learning course for one month, allowing you to review specific sections as needed.

DURATION

Approximately 4 hours

TRAINING METHOD

- Theoretical and interactive layout
- Questionnaires to verify the acquisition of essential concepts
- Certificate of completion of training

MATERIAL

Each participant must have a means of connecting to the internet in order to access the training portal. Installation of the tool is not required.

PRICES

Price excluding VAT (20%):
Price per user: €300

Access time: 3 business days

PROGRAM E-LEARNING

MODULE 1: INTRODUCTION TO SYSML & CSM

- MBSE Overview
- Presentation and Overview of SysML
- Introduction to CSM

MODULE 2: SYSML DIAGRAMS WITH CSM

- Package Diagram
- Requierement Diagram
- UseCase Diagram
- Block Definition Diagram
- Internal Block Diagram
- Activity Diagram
- Sequence Diagram
- State Machine Diagram
- Parametric Diagram

MODULE 3: GOING FUTHER WITH CSM

- Supporting SysML diagrams
- Navigation using diagrams

MODULE 4: INTRODUCTION TO TWC

- What is Teamwork Cloud?
- Working with TWC

ADVANCED USE OF CATIA MAGIC

SE-CSM-03

60 trainees.
Satisfaction rate: 9.3/10

Last updated:
January 2026

Version : 1.4



TRAINERS



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DESCRIPTION

- The Advanced Use of Catia Magic training course is conducted INTRA for a single organization, as it is structured in modular components customized to meet your specific requirements. Each module concentrates on a particular feature or advanced application of the Catia Magic tool, allowing you to maximize its potential for your models.

GOALS



At the conclusion of the training, the trainee will possess the ability to:

- Create TWC/MCS projects and categorize them, define user roles and permissions, manage users and groups, establish and modify project dependencies (project utilization), define and implement strategies for project separation based on project type, and create branches while merging them with the trunk.
- Create legends, metachains, "opaque behavior," and "structured expressions," and employ them in generic tables, "relationship maps," and legends.
- Define a "Domain Specific Language" (DSL), elucidate how the various components of a plugin collaborate to facilitate a DSL, specify what can be incorporated into a model through a plugin, identify the necessary component(s) of a plugin required for modifications, and establish model validation rules utilizing "structured expressions" and scripting.

MODULE 1: ADVANCED USE OF TEAMWORK CLOUD

DESCRIPTION

Learn how to use the advanced features of TWC/MCS, including administration and how to efficiently break down your projects.

PREREQUISITES

Have at least three months of experience with the CSM/Magic Cyber Systems Engineer tool and SysML, and have already used TeamWork Cloud/Magic Collaboration Studio

TARGET AUDIENCE

System Engineers, Architects, Designers, Project Managers who wish to use CSM in their team and who have already been using CSM/MCSE for at least 3 months.

GOALS

At the end of the training, the trainee will be able to:

- Create TeamWork Cloud / Magic Collaboration Studio projects and assign them to categories

Define user roles and permissions, manage users and groups
Establish and modify dependencies between projects (project usage)
Define and implement strategies for project separation based on project type

PROGRAM

MANAGING RESOURCES

Creating categories
Adding projects to TWC

MANAGING USERS

Define user roles and permissions
Add and manage users and groups

MANAGE PROJECTS & PROJECT DEPENDENCIES

Project separation strategies
Establish project usages
Remove / update project usages
Branch and merge management

CHARACTERISTICS OF THE TRAINING

DURATION

0.5 days: 3.5 hours

TRAINING METHOD

- Theoretical presentation (slides), discussion, practical exercises with the tool
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must bring their own PC with a CSM or Catia Magic software license already installed; we do not provide any software or licenses. The PC must be able to connect to the internet to access the training extranet (Digiforma).

PRICES

PRICE EXCLUDING VAT (20%):
Session INTRA :
– €1,275 for 3 to 8 trainees from the same company

Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

MODULE 2: ADVANCED USE OF CATIA MAGIC - STRUCTURED EXPRESSIONS

DESCRIPTION

Learn how to leverage "opaque behavior" and metachains to improve your generic tables and relationship maps.

PREREQUISITES



Have at least three months of experience with Cameo Systems Modeler / Magic Cyber Systems Engineer and SysML

TARGET AUDIENCE



System Engineers, Architects, Designers, Project Managers who wish to use CSM in their team and who have already been using CSM/MCSE for at least 3 months.

GOALS



At the end of the training, the trainee will be able to:
Create legends, metachains, "opaque behavior" and "structured expressions", and use them in generic tables, "relation maps" and legends

PROGRAM

MODEL EXPLOITATION

Legend creation
Generic table creation
Relation map creation

METACHAINS

Create metachains

- – from simple to complex
- Enrich tables and relation maps with metachains

STRUCTURED EXPRESSIONS

Specific operands (Exclude, ...)
Using metachains
Using scripts (Groovy)
Create and use opaque behaviors
Enrich generic tables
Enrich Relation Maps
Use in Smart Package queries

CHARACTERISTICS OF THE TRAINING

DURATION

1 day: 7 hours

TRAINING METHOD

- Theoretical presentation (slides), discussion, practical exercises with the tool
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must bring their own PC with a CSM or Catia Magic software license already installed; we do not provide any software or licenses. The PC must be able to connect to the internet to access the training extranet (Digiforma).

PRICES

PRICE EXCLUDING VAT (20%):
Session INTRA :
– €2,450 for 3 to 8 trainees from the same company

Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

MODULE 3: ADVANCED USE OF CATIA MAGIC-DOMAIN (SPECIFIC LANGUAGE)

DESCRIPTION

Learn how CSM/MCSE can be customized and can support an extension to SysML for a "Domain Specific Language".

PREREQUISITES

Have at least three months of experience with Cameo Systems Modeler / Magic Cyber Systems Engineer and SysML

TARGET AUDIENCE

System Engineers, Architects, Designers, Project Managers who wish to use CSM in their team and who have already been using CSM/MCSE for at least 3 months.

GOALS

At the end of the training, the trainee will be able to:

- Define what a "Domain Specific Language" (DSL) is.
- Describe how the different parts of a plugin work together to support a DSL
- Identify what can be added to a model using a plugin, and which part(s) of a plugin are needed to make the change.
- Create model validation rules using structured expressions and scripts

PROGRAM

DOMAIN-SPECIFIC LANGUAGE

- Introduction & overview
- How CSM/MCSE can support DSL

PLUGINS

- What is a plugin?
- How a plugin can support a DSL
- The different parts of a plugin
- Code vs profiling vs customization

PROFILE DEFINITION

- Introduction & Profile Diagram
- Create new stereotypes
- Define attributes
- Customizations
- Derived properties

VALIDATION RULES

- Creation of validation rules

– Using Structured Expressions
– Using scripting languages

CHARACTERISTICS OF THE TRAINING

DURATION

1 day: 7 hours

MATERIAL

Each participant must bring their own PC with a CSM or Catia Magic software license already installed; we do not provide any software or licenses. The PC must be able to connect to the internet to access the training extranet (Digiforma).

TRAINING METHOD

- Theoretical presentation (slides), discussion, practical exercises with the tool
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

PRICES

PRICE EXCLUDING VAT (20%):
Session INTRA :
– €2,450 for 3 to 8 trainees from the same company

Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

MODULE 4: ADVANCED USE OF CATIA MAGIC - DOCUMENT GENERATION

DESCRIPTION

Learn how to use Catia Magic's Report Wizard to generate documents of any type from your models.

PREREQUISITES

Have at least three months of experience with Cameo Systems Modeler / Magic Cyber Systems Engineer and SysML

TARGET AUDIENCE

System Engineers, Architects, Designers, Project Managers who wish to use CSM in their team and who have already been using CSM/MCSE for at least 3 months.

GOALS

At the end of the training, the trainee will be able to:
Generate documents from existing templates

- Adapting existing templates to suit your specific needs

Create new templates incorporating diagrams, tables, and data formatting

PROGRAM

- INTRODUCTION TO DOCUMENT GENERATION
- USE OF PREDEFINED TEMPLATES
- INTRODUCTION TO VELOCITY SCRIPT
- EXTRACTION OF DIAGRAMS
- TABLE MANAGEMENT
- TIPS AND TRICKS

CHARACTERISTICS OF THE TRAINING

DURATION

1 day: 7 hours

TRAINING METHOD

- Theoretical presentation (slides), discussion, practical exercises with the tool
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must bring their own PC with a CSM or Catia Magic software license already installed; we do not provide any software or licenses. The PC must be able to connect to the internet to access the training extranet (Digiforma).

PRICES

PRICE EXCLUDING VAT (20%):
Session INTRA :
– €2,450 for 3 to 8 trainees from the same company

Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

INTRODUCTION TO SIMULATION WITH CATIA MAGIC

SE-CSM-04

8 traineers

Last updated:
January 2026

Version : 1.4



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DESCRIPTION

This training allows you to discover the capabilities of Cameo Simulation Toolkit / Magic Model Analyst to begin simulating various SysML diagrams

GOALS

At the end of the training, the trainee will be able to:
List the different diagrams that can be simulated.

- Describe the semantic rules to be followed to obtain a simulable model
- Launch the simulation and progress it step by step using simple diagrams.

PREREQUISITES

Have at least 3 months of good experience using CSM

TARGET AUDIENCE

This training is aimed more specifically at System Engineers and Architects

CHARACTERISTICS OF THE TRAINING

DURATION

1 day (7 hours)

TRAINING METHOD

- Theoretical presentation (slides), discussion (sharing) around questions (exercises)
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must bring their own PC with a CSM or Catia Magic software license already installed; we do not provide any software or licenses. The PC must be able to connect to the internet to access the training extranet (Digiforma).

PRICES

PRICE EXCLUDING VAT (20%):
– INTER session: €1,125 per trainee (Reduced to €850 for each additional trainee from the same company)
– INTRA session: €2,650 for 3 to 8 trainees from the same company

Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant

- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

INTRODUCTION TO CATIA MAGIC MODEL ANALYST / CAMEO SIMULATION TOOLKIT

- List of diagrams that can be simulated
- How simulation works (interpretation)
- The various simulation engines
- Details of the simulation panel
- Quiz

ACTIVITY SIMULATION

- Simulation of a sequence
- Simulation of fork and merge
- Simulation of decisions
- Simulation of input data/object flows
- Practice

STATE MACHINE SIMULATION

- Simulation of signal-based transitions
- Simulation of time-based transitions
- Practice

EVALUATION OF PARAMETRICS

- Evaluation through the panel
- Use of default values
- Relation with requirements
- Practice

ADVANCED SIMULATION WITH CATIA MAGIC

SE-CSM-05

8 trainees

Last updated:
January 2026

Version : 1.4



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DESCRIPTION

This training allows you to go further with simulation, namely to use simulation on complex diagrams and to know how to build several simulation configurations to support several scenarios.

GOALS



At the end of the training, the trainee will be able to:
Knowing how to simulate a state machine diagram.

- Knowing how to simulate an activity diagram.
- Knowing how to simulate an IBD diagram
- Simulate state machine, activity, and IBD diagrams together
- Knowing how to build different simulation configurations to support different operational scenarios.

PREREQUISITES

- Good experience using CSM: At least 3 months
- Knowledge of the basics of simulation (having completed the "Introduction to Simulation with Cameo Systems Modeler" (SE-CSM-04) training)

TARGET AUDIENCE

This training is aimed more specifically at System Engineers and Architects

CHARACTERISTICS OF THE TRAINING

DURATION

2 days (14 hours)

TRAINING METHOD

- Theoretical presentation (slides), discussion (sharing) around questions (exercises)
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must bring their own PC with a CSM or Catia Magic tool and a license already installed; we do not provide any tools or licenses. The PC must be able to connect to the internet to access the training extranet (Digiforma).

PRICES

PRICE EXCLUDING VAT (20%):
Session INTRA :
– €5,500 for 3 to 8 trainees from the same company

- Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

ADVANCED SIMULATION OF ACTIVITY DIAGRAMS

- Call of activities from master activity
- Evaluation in the context of a block
- Dynamic guard conditions
- Time monitoring

ADVANCED CONFIGURATIONS

- Use of instances for dedicated values

ADVANCED SIMULATION OF STATE MACHINE

- Use of composite states
- Use of choices
- Call of activities
- Use of empty transitions

CUSTOM WIDGETS FOR SIMULATION

- States
- Forms

ADVANCED SIMULATION OF INTERNAL BLOCK DIAGRAMS

- Simulation of data flows on connectors
- Combining with activities and states

INTRODUCTION ON CO-SIMULATION WITH FMI

INTRODUCTION TO UAF
WITH THE CATIA MAGIC TOOL (MSOSA) OR THE SPARX EA TOOL

SE-SOS-UAF-CM & SE-SOS-UAF-EA

29 traineers.
Satisfaction rate: 9.2/10
Last updated:
January 2026
Version : 1.4



TRAINERS



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DESCRIPTION

Thanks to this training, you will understand the interest and principles of the UAF framework, as well as how to read and create the most appropriate UAF diagrams with the Catia Magic tool for the SE-SOS-UAF-CM training and with the Sparx EA tool for the SE-SOS-UAF-EA training.

UAF®
OMG UNIFIED ARCHITECTURE FRAMEWORK®

GOALS

At the end of the training, the trainee will be able to:

- Explain the different areas and points of view of UAF
- 2 possible tools
- Dassault's Magic System of Systems Architect (MSOSA) tool can be used to read and create the most appropriate UAF diagrams.
- Use Sparx's Enterprise Architect tool to read and create the most appropriate UAF diagrams.

PREREQUISITES

Even a basic knowledge of the NAF architectural framework.
First experience with a desirable but not essential modeling tool.

TARGET AUDIENCE

This training is aimed more specifically at enterprise architects and systems engineers.

CHARACTERISTICS OF THE TRAINING

DURATION

1 day (7 hours) for SE-SOS-UAF-CM and 1.5 days for SE-SOS-UAF-EA.
Both training courses can be divided into half-days of 3.5 hours.

MATERIAL

Each participant must bring their own PC with a CSM or Catia Magic software license already installed; we do not provide any software or licenses. The PC must be able to connect to the internet to access the training extranet (Digiforma).

TRAINING METHOD

- Theoretical presentation (slides), discussion (sharing) around questions (exercises)
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

PRICES

PRICE EXCLUDING VAT (20%):
SE-SOS-UAF-CM
– INTER session: €1,000 per trainee (Reduced to €825 for each additional trainee from the same company)
– INTRA session: €2,550 for 3 to 8 trainees from the same company
SE-SOS-UAF-EA
– INTER session: €1,650 per trainee (Reduced to €1,275 for each additional trainee from the same company)
– INTRA session: €3,800 for 3 to 8 trainees from the same company

- Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

INTRODUCTION

Introduction of participants
Reminders: concept of a system of systems and NAF architectural framework

CREATION OF MAIN UAF VIEWS

Domaines : strategic, operational, service and resource domains
Types de modèle : Taxonomy, structure, connectivity, processes, states, scenarios, traceability

OVERVIEW OF THE UAF ARCHITECTURAL FRAMEWORK

Overview of the Main Areas
First practical exercises with Cameo Enterprise Architecture

ADDITIONAL INFORMATION ON OTHER AREAS

Personnel, projects, requirements....

CASE STUDY

CONCLUSION

SHARING AND RATINGS

INTRODUCTION AND CHALLENGES OF THE MBSE APPROACH WITH CAPELLA

SE-MBARC-01

29 trainees.
Satisfaction rate: 8.9/10

Last updated:
January 2026

Version : 1.4



TRAINERS



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DESCRIPTION

Discover why and how the MBSE approach can support effective systems engineering. This training provides an overview of the ARCADIA method and the Capella tool with examples, and presents the advantages of MBSE for digital continuity and interaction with other domains/disciplines.

CASE STUDY

Agricultural aerial drone as a system of interest
Implementation of the different architectural levels of the ARCADIA method
Implementation of the various elements of the model and diagrams provided by the CAPELLA tool

GOALS

At the end of the training, participants will be able to:
Describe the principles and benefits of the ARCADIA method
Describe the advantages of an MBSE modeling tool such as Capella compared to using the MS Office suite.

- List the potential changes in your company's engineering processes and practices resulting from using an MBSE approach with Capella
- Understanding the advantages of the MBSE approach and its consistency with systems engineering processes
- Describe the ARCADIA method, including the main concepts and diagrams to be used when defining the system down to the physical layer.

PREREQUISITES

A basic understanding of requirements engineering is desirable.

TARGET AUDIENCE

This training is specifically aimed at Project Managers.

CHARACTERISTICS OF THE TRAINING

DURATION

Half a day (3.5 hours)

TRAINING METHOD

- Theoretical presentation (slides), discussion, practical exercises with the tool
- Questionnaires to verify the acquisition of essential concepts
- Certificate of completion of training

MATERIAL

Each participant must bring their own PC with the Capella tool already installed; the tool is free and open source. The PC must be able to connect to the internet to access the training extranet (Digiforma).

PRICES

PRICE EXCLUDING VAT (20%):
Session INTRA :
– €1,550 for 3 to 8 trainees from the same company

- Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

INTRODUCTION

The fundamentals of Systems Engineering
Overview of ISO 15288:2023

MBSE FUNDAMENTALS

MBSE principles

- ARCADIA method and mapping to Systems Engineering processes
- Introduction of Case Study

ILLUSTRATED MBSE APPROACHES

- Classical “Top-Down” Approach

Performances (MOE-MOP-KPP-TPM)

- Meet in the Middle Approach
- “Multi-Levels” and sharing responsibilities within teams
- Synthesis

ADDITIONNAL TOPICS

- Coordination between disciplines engineering and MBSE (digital continuity)
- Model-Based Product Line Engineering
- PLM coupling
- Textual Requirements and MBSE consistency
- MBSE and Configuration Management

MBSE IN PRACTICE WITH ARCADIA AND CAPELLA

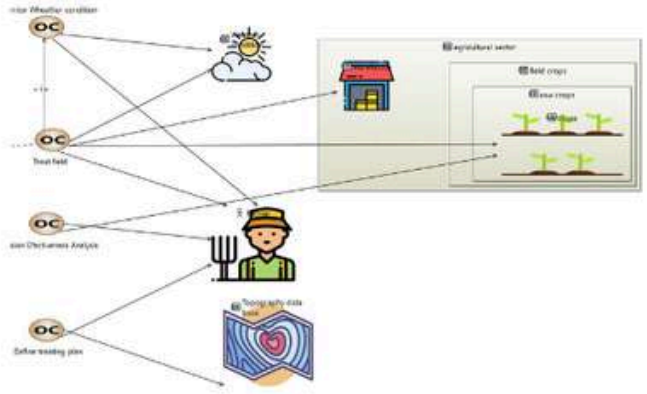
SE-MBARC-02 & SE-MBARC-02s

200 traineers.
Satisfaction rate: 8.9/10

Last updated:
January 2026

Version : 1.4

ARCADIA



Capella
Open Source MBSE Solution

TRAINERS



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DESCRIPTION

Learn by practicing a model-based approach that goes from requirements to detailed system architecture definition.
Positioning in relation to the technical processes of ISO 15288:2023 and the use and implementation of the ARCADIA method.
Version SE-MBARC-02s concerns the use and implementation of the ARCADIA method in a spatial context.



CASE STUDY

- An agricultural aerial drone as a system of interest
- Implementation of the different architectural levels of the ARCADIA method
- Implementation of the various model and diagram elements proposed by the CAPELLA tool
- Using the CAPELLA tool for practice

GOALS



At the end of the training, the trainee will be able to:

- Use the ARCADIA method in accordance with standard systems engineering processes (ISO15288:2023 and ECSS-10 for space)
- Describe the ARCADIA method, including the main concepts and diagrams to be used when defining the system down to the physical layer.
- Apply the ARCADIA method using the Capella tool and a selection of its extensions (plugins).



PREREQUISITES

- A basic understanding of ISO 15288 requirements engineering and technical processes is recommended.



TARGET AUDIENCE

This training is specifically aimed at: System Engineers, Architects, Designers, Project Managers who want to deploy MBSE in their team

CHARACTERISTICS OF THE TRAINING

DURATION

4 days (28 hours) for both: SE-MBARC-02 and SE-MBARC-02s.
Both courses can be divided into 8 half-days of 3.5 hours each.

MATERIAL

Each participant must bring their own laptop. An installation guide for the Capella environment and its associated extensions will be provided prior to the session.

Note: Each trainee must have write permissions in the directory where the Capella tool will be installed.

TRAINING METHOD

- Theoretical presentation (slides), discussion, practical exercises with the tool
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

PRICES

PRICE EXCLUDING VAT (20%):
SE-MBARC-02
– INTER session: €2,950 per trainee (Reduced to €2,300 for each additional trainee from the same company)
– INTRA session: €6,750 for 3 to 8 trainees from the same company
SE-MBARC-02s
– INTRA training session: €7,300 for 3 to 8 trainees from the same company

- Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

INTRODUCTION

- The fundamentals of Systems Engineering
- Introduction to Model-Based Systems Engineering
- ARCADIA Overview
- Introduction to Capella
- Hands on Capella tool
- Case Study presentation

OPERATIONAL ANALYSIS

- Glossary of Terms
- Relation between OA layer and standard processes
- OA models and diagrams in CAPELLA
- OA Best practices
- Practical work: Operational Analysis

SYSTEMS ANALYSIS

System Analysis Overview

- Black Box Analysis
- Practical work: Mission & Capabilities
- White Box Analysis
- Practical work: Functional Architecture and Scenarios
- Transverse Modelling in Capella

LOGICAL ARCHITECTURE

- Relations between LA/PA layers and standard processes
- Glossary of Terms
- LA models and diagrams in CAPELLA
- Practical work: Logical Architecture
- LA Best practices

PHYSICAL ARCHITECTURE

- Glossary of Terms
- PA models and diagrams in Capella
- Practical work: Physical Architecture
- PA Best practices
- EPBS in Capella
- Replicable Elements and Libraries

ADVANCED FEATURES AND VIEWPOINTS

- Viewpoint management
- Property Values Management Tool
- System To Subsystem Transition
- xHTML documentation generation
- Requirements Viewpoint
- Publication for Capella (P4C)
- M2Doc introduction
- More extensions and conclusion

MBSE WITH CAPELLA - MODEL REVIEW BY INDUSTRY EXPERTS

SE-MBARC-03

1 trained person

Last updated:
January 2026

Version : 1.4



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DESCRIPTION

Need to understand and review the Capella templates created by your colleagues? This training is for you!
Learn the ARCADIA concepts developed with the Capella tool, and discover how to efficiently review a Capella model, navigate within the model, and define explicit review comments within the model.



CASE STUDY

- Agricultural aerial drone as a system of interest
- Review of the different architectural levels of the ARCADIA method
- Review of the different elements of the model and diagrams provided by the CAPELLA tool
- Using the CAPELLA tool for practice

GOALS



At the end of the training, the trainee will be able to:

- Describe the ARCADIA method, including the main concepts and diagrams to be used when defining the system down to the physical layer.
- Review a Capella model and understand if it is correct with regard to the requirements and/or architecture that it is supposed to formalize;



PREREQUISITES

A basic understanding of Requirements Engineering is desirable



TARGET AUDIENCE

This training is specifically aimed at subject matter experts involved in reviews.

CHARACTERISTICS OF THE TRAINING

DURATION

2 days (14 hours): can be divided into 4 half-days of 3.5 hours each.

MATERIAL

Each trainee must bring their own computer with Capella 6.1.0 installed. Some additional extensions will need to be installed (full system requirements will be provided before the training).

Note: Each trainee will need write access to the folder where the Capella tool is installed.

TRAINING METHOD

- Theoretical layout (slides), discussion
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

PRICES

PRICE EXCLUDING VAT (20%):
Session INTRA :
– €3,800 for 3 to 8 trainees from the same company

- Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

INTRODUCTION

- The fundamentals of Systems Engineering
- Overview of ISO 15288:2023 with focus on reviews
- ARCADIA method
- Case Study presentation

LOGICAL ARCHITECTURE

- Glossary of Terms
- Relation between LA layer and engineering reviews
- LA models and diagrams in CAPELLA
- Practical work: review of Logical Architecture on UAV Agri case study

OPERATIONAL ANALYSIS

- Glossary of Terms
- Relation between OA layer and engineering reviews
- OA models and diagrams in CAPELLA
- Practical work: review of Operational Analysis on UAV Agri case study

PHYSICAL ARCHITECTURE

- Glossary of Terms
- Relation between PA layer and engineering reviews
- PA models and diagrams in CAPELLA
- Practical work: review of Physical Architecture on UAV Agri case study

SYSTEMS ANALYSIS

- Glossary of Terms
- Relation between SA layer and engineering reviews
- SA models and diagrams in CAPELLA
- Practical Work : review of System Analysis on UAV Agri case study

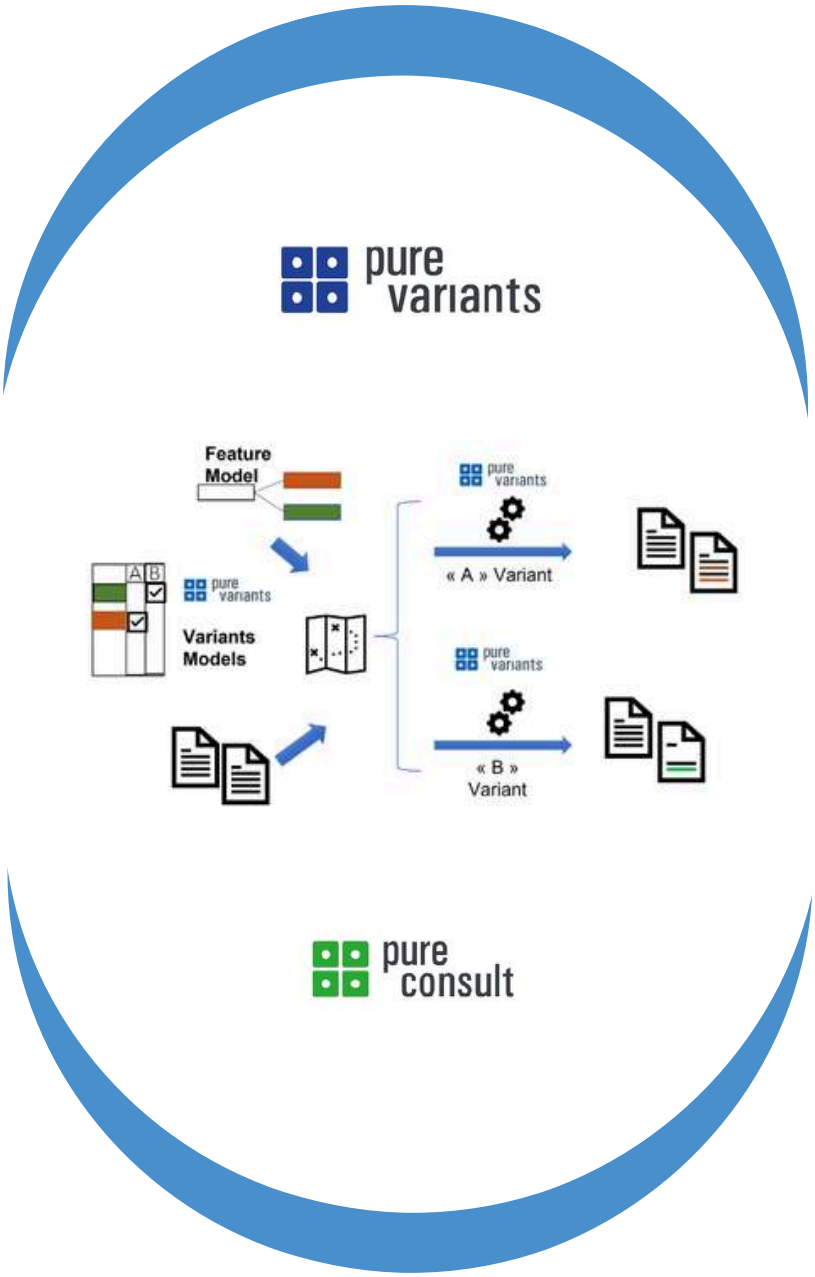
INTRODUCTION TO PRODUCT LINE MANAGEMENT WITH PURE::VARIANTS

SE-PLE-01

55 people trained.
Satisfaction rate: 9.0/10

Last updated:
January 2026

Version : 1.4



TRAINERS



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DESCRIPTION

Learn the basic concepts of product line management and its practical application using PTC's pure::variants tool. This training is an introduction to all aspects of product line management, including issues, vocabulary, standards, and processes, all implemented with pure::variants and the MS Office connector.

GOALS



At the end of the training, the trainee will be able to:

- Define the concepts of product lines applied with the pure::variants tool
- Analyze and understand best practices in product line modeling
- To be able to implement a product line definition process with pure::variants and understand the string used on a simple connector example (office)



PREREQUISITES

A basic understanding of Systems Engineering is recommended



TARGET AUDIENCE

This training is specifically aimed at: Project managers, system engineers, and software development engineers want to begin setting up product lines using the pure::variants tool.

CHARACTERISTICS OF THE TRAINING

DURATION

1 day (7 hours): can be divided into 2 half-days of 3.5 hours each

TRAINING METHOD

- Theoretical presentation (slides), discussion (sharing) around questions (exercises)
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must bring their own laptop and must have previously installed and obtained a license for:

- Pure::variants 6.0
- Suite Microsoft Office : Word et Excel
- We will not provide any tools or licenses.

PRICES

PRICE EXCLUDING VAT (20%):
– INTER session: €950 per trainee (Reduced to €750 for each additional trainee from the same company)
–INTRA session: €2,250 for 3 to 8 trainees from the same company

Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant

- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

INTRODUCTION

- Context
- Problematic

CONCEPTS PURE::VARIANT

Feature models

- Variants Description Model
- Family Model
- Data Flow
- PvSCL

STANDARD AND VOCABULARY

- Reference standards (ISO)
- Concepts of variation points

BEST PRACTICES

- Partial configuration
- Template
- Model construction logic

CONCEPTS PLE

- Concept of a product line
- Example outline

OFFICE CONNECTOR

- Example application using Excel
- Example application using Word

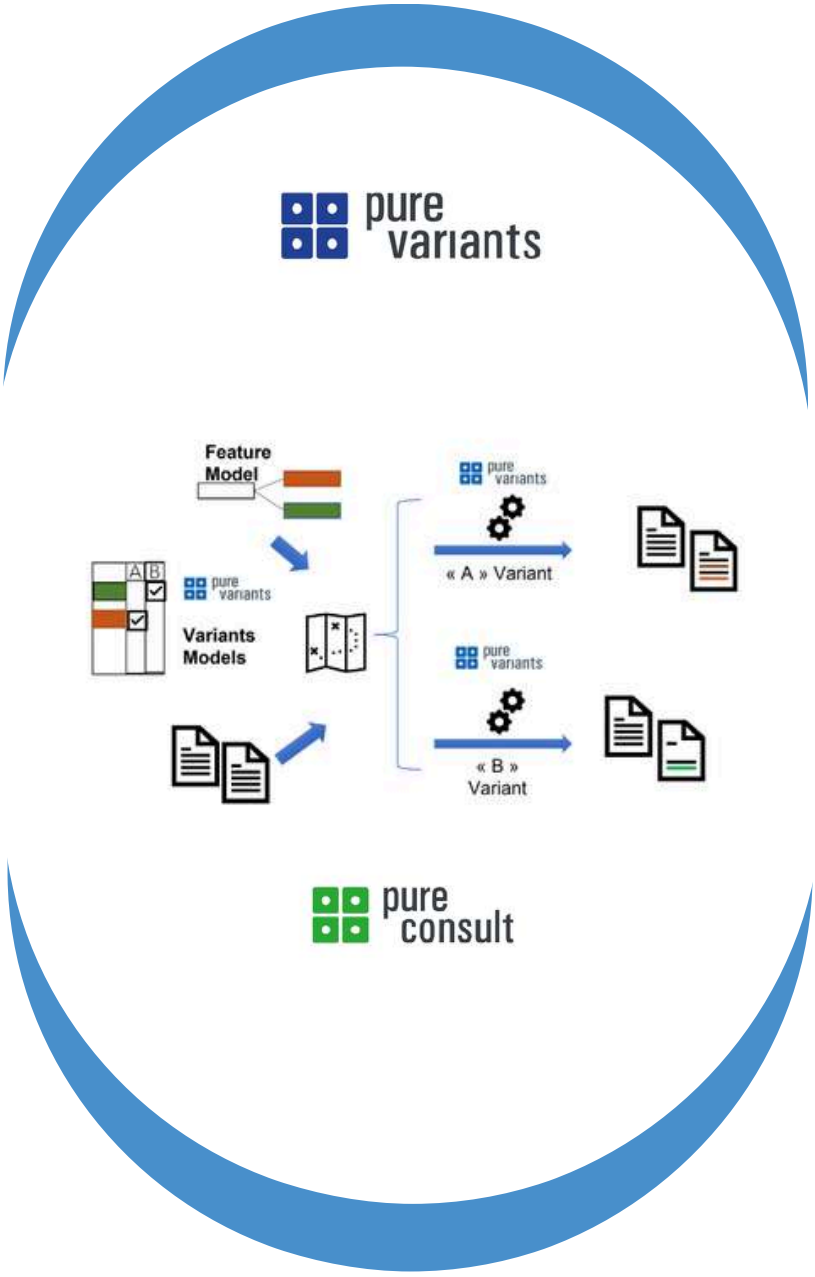
ADVANCED PRODUCT LINE MANAGEMENT WITH PURE::VARIANTS AND ASSOCIATED CONNECTORS

SE-PLE-02

12 trainees.
Satisfaction rate: 8.9/10

Last updated:
January 2026

Version : 1.4



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DESCRIPTION

This training allows you to go further with pure::variants by implementing several connectors (modeling tools, requirements, documentation, code, etc.). This will enable you to take a cross-functional approach to connecting variability to the various tools needed to develop your system.

GOALS



At the end of the training, the trainee will be able to:

- implement an end-to-end process (from defining variability to instantiating variants) using the pure::variants tool
- implement the complete process using the systems engineering tools employed (MBSE, requirements, software development, IVV)



PREREQUISITES

Having already used pure::variants or having completed our Introduction to Product Line Management with pure::variants (SE-PLE-01) training course; Knowledge of the software selected for the connectors



TARGET AUDIENCE

This training is specifically designed for users of pure::variants, project managers, system engineers, and software development engineers.

CHARACTERISTICS OF THE TRAINING

DURATION

1 day (7 hours): can be divided into 2 half-days of 3.5 hours each

TRAINING METHOD

- Theoretical presentation (slides), discussion (sharing) around questions (exercises)
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must bring their own laptop and must have previously installed and obtained licenses for:

- Pure::variants 6.0
- Connecteurs : JAZZ DOORS NG , JAZZ ETM, Rhapsody, Capella 5.2.0, Sources codes, Model Server
- Suite Microsoft Office : Word et Excel

PRICES

PRICE EXCLUDING VAT (20%):
Session INTRA :
– €2,675 for 3 to 8 trainees from the same company

- Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

INTRODUCTION

PURE::VARIANTS CONNECTORS

- Catia Magic Connector
- CAPELLA connector
- Polarion connector
- Connecteur IBM DOORS NG
- IBM ETM Connector
- Source Code Connector
- Connecteur DOORS Classic
- Rhapsody Connector

TRAINING CAN BE TAILORED TO YOUR SPECIFIC CONNECTOR USAGE.

INTRODUCTION TO PRODUCT LINE MANAGEMENT WITH MBPLE

SE-PLE-03

5 trainees

Last updated:
January 2026

Version : 1.2

TRAINERS



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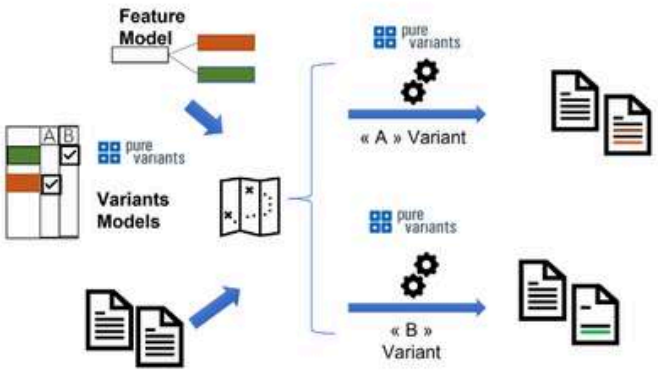
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pure consult

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DESCRIPTION

Learn the fundamentals of product line engineering in a hands-on way using the free product line engineering plugin for Dassault Systèmes' Catia Magic tools. This training is an introduction to product line topics, including issues, vocabulary, standards, and processes, as well as how to implement them in Catia Magic using their MBPLE product line plugin.

GOALS



At the end of the training, the trainee will be able to:

- Define the concepts and vocabulary specific to MBPLE and PLE in general.
- Describe best practices in product line modeling.
- Implementing a product line definition process in the Catia Magic tool



PREREQUISITES

Basic knowledge of how to use Catia Magic - creating elements, diagrams and relationships, familiarization with the interface -.



TARGET AUDIENCE

This training is specifically aimed at the following professions:

- Project managers,
- system engineers
- Software development engineers
- who want to start setting up product lines for their Catia Magic projects.

CHARACTERISTICS OF THE TRAINING

DURATION

1 day (7 hours): can be divided into 2 half-days of 3.5 hours each

TRAINING METHOD

- Theoretical presentation (slides), discussion (sharing) around questions (exercises)
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must bring their own PC with a CSM or Catia Magic software program already installed and licensed, plus the free "Product Line Engineering" plugin; we do not provide any tools or licenses. The PC must have internet access to connect to the training extranet (Digiforma).

PRICES

PRICE EXCLUDING VAT (20%):
– INTER session: €1,025 per trainee (Reduced to €800 for each additional trainee from the same company)
– INTRA session: €2,400 for 3 to 8 trainees from the same company

- Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

INTRODUCTION

CONCEPTS PLE

- Reference standards
- Standard vocabulary

INTRODUCTION TO THE CASE STUDY

CONCEPTS AND PRACTICAL APPLICATION OF MBPLE

- Overview of the MBPLE
- Features model
- Configurations
- Points of variation
- Preview and variant generation

OTHER TOPICS

- Partial configurations
- Limitations of MBPLE
- Perspectives

NEW

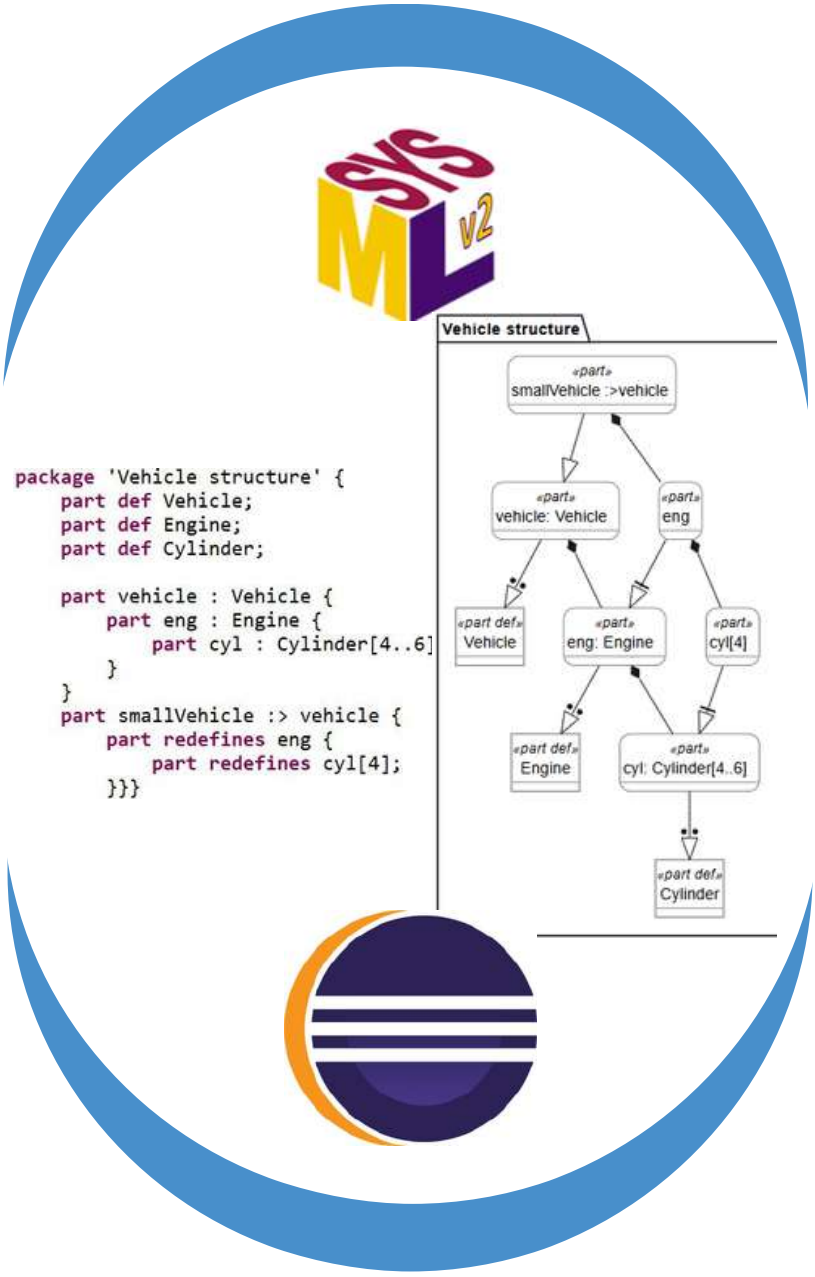
AWARENESS OF SYSML V2

SE-SV2-01

9 trainees.
Satisfaction rate: 9.5/10

Last updated:
January 2026

Version : 1.2



TRAINERS



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DESCRIPTION

Interested in SysML V2 and how it will be used in an MBSE context? This training will give you the foundation to understand the textual and graphical aspects of this recent modeling language. You will also learn the various functionalities of the tool to create SysML V2 models efficiently.

GOALS



At the end of the training, the trainee will be able to:

- Identify the different facets of the SysML V2 language
- Identify and summarize the main concepts of the SysML V2 language
- Illustrate structural and behavioral concepts using the textual syntax of SysML V2
- Distinguish between the different SysML V2 concepts and associate the textual syntax with its graphical representation
- Summarize the available features and benefits of the SysML V2 API



PREREQUISITES

A basic understanding of systems engineering is recommended.



TARGET AUDIENCE

This training is specifically aimed at: Systems engineers, architects, designers and project managers who want to discover SysML V2

CHARACTERISTICS OF THE TRAINING

DURATION

2 days (14 hours)

TRAINING METHOD

- Theoretical presentation (slides), discussion (sharing) around questions (exercises)
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must bring their own PC, on which they have write permissions or with the tool (SysML V2 Pilot/Jupyterlab) already installed. The PC must be able to connect to the internet to access the training extranet (Digiforma).

PRICES

PRICE EXCLUDING VAT (20%):
– INTER session: €1,800 per trainee (Reduced to €1,400 for each additional trainee from the same company)
– INTRA session: €4,100 for 3 to 8 trainees from the same company

- Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

INTRODUCTION

LEVEL 1: STRUCTURAL MODELING

- Requirements part 1
- Item
- Part
- Attribute
- Port
- Connection
- Specialization / Generalization
- Requirements part 2

LEVEL 2: BEHAVIORAL MODELING

- Use Case
- Action
- Flow
- State machine

LEVEL 3: INTERNAL COHERENCE

- Occurrences, message
- Time slice, snapshot
- Functions, Calculation
- Assignment action
- Port def, Interface, Flow
- Binding
- Allocation
- Analysis, Trade-off, Verification
- Subsetting, redefinition, metadata
- Views

GOING BEYOND: EXTERNAL CONNECTIVITY

- Product Line Engineering
- Safety Engineering
- Geometry

CONCLUSION

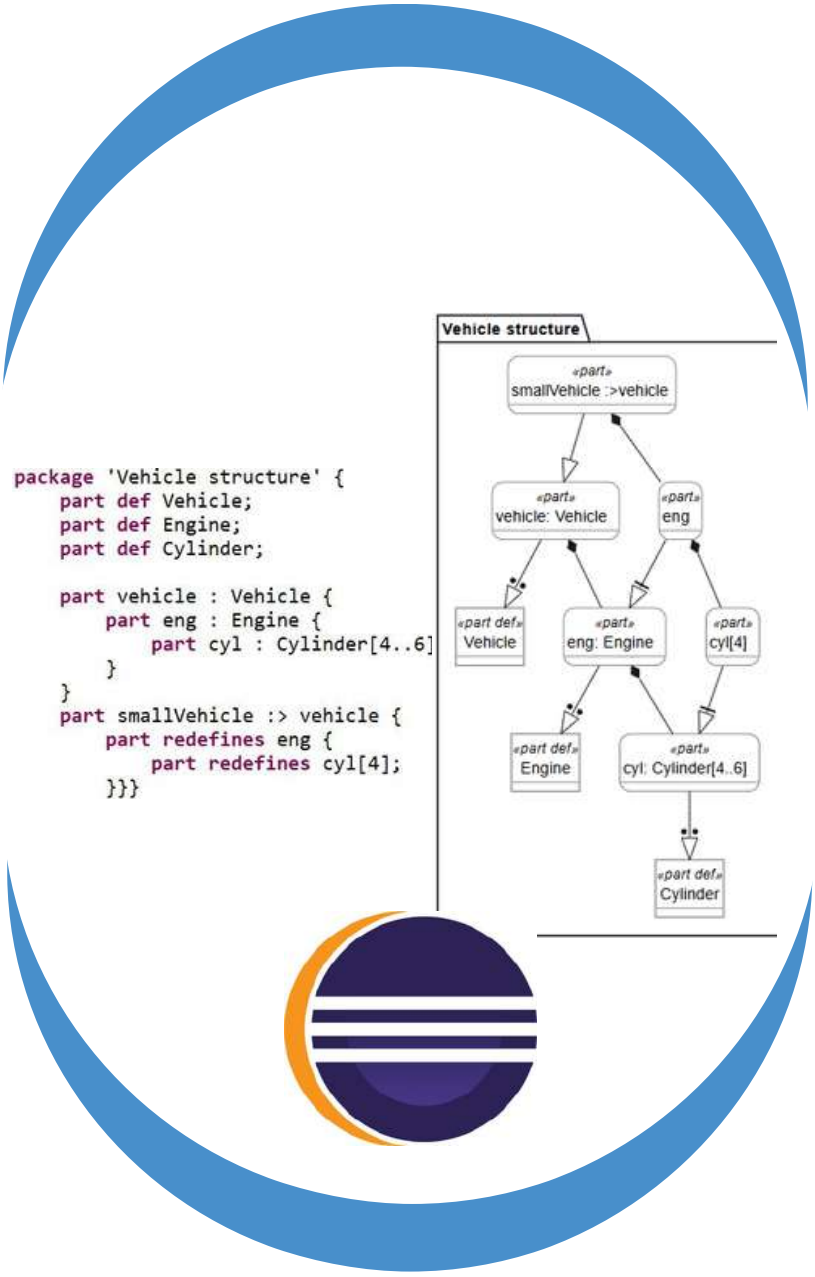
NEW

INTRODUCTION TO THE SAFETY STUDY

SE-SAF-01

Last updated:
January 2026

Version : 1.0



TRAINERS



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DESCRIPTION

Introduce the fundamental concepts of systems security to identify associated risks, then understand the main security analysis techniques. Note: the link between security engineering and systems engineering is briefly addressed at the end. It is covered through model collaboration in another program.

GOALS



At the end of the training, the trainee will be able to:

- List the main security analysis techniques
- Demonstrate the use of safety assessment
- Describe the overall security processes

PREREQUISITES

No prerequisites

TARGET AUDIENCE

This training is aimed more specifically at Systems Engineers who need basic knowledge in security assessment.

CHARACTERISTICS OF THE TRAINING

DURATION

1 day (7 hours)

TRAINING METHOD

- Theoretical presentation (slides), discussion (sharing) around questions (exercises)
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must have a means to connect to the internet in order to access the training extranet (Digiforma).

PRICES

PRICE EXCLUDING VAT (20%):
– INTER session: €1,000 per trainee (Reduced to €775 for each additional trainee from the same company)
– INTRA session: €2,350 for 3 to 8 trainees from the same company

- Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant
- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

INTRODUCTION TO SYSTEMS ENGINEERING

- System Of Interest
- Know the fundamentals of SE and its standard processes
- Understand the purpose of SE
- Functional analysis summary
- Product breakdown structure

INTRODUCTION TO SAFETY

- Need for safety

Safety processes and concepts

SAFETY STANDARDS

- Overview of safety cycle process
- Safety standards in different domains
- General safety and development process
- Introduction to SIL

QUALITATIVE & QUANTITATIVE RISK ASSESSMENT

- Overview of risk assessment approaches
- List of a few quantitative and qualitative techniques

OVERALL SCOPE DEFINITION (PRA)

- SE need analysis as input
- Preliminary risk analysis (PRA)

FUNCTIONAL FAILURE MODES AND EFFECTS ANALYSIS (FFMEA)

- SE functional analysis as input
- FMEA process and results

FAILURE MODES, EFFECTS AND CRITICALITY ANALYSIS (FMECA)

- SE logical architecture as input
- FMECA process and results

FAULT TREE ANALYSIS (FTA)

- SE physical architecture as input
- FTA process and results

GOING FURTHER

- Fault tolerance
- Exchange between SE and SA
- Need for SE/SA consistency

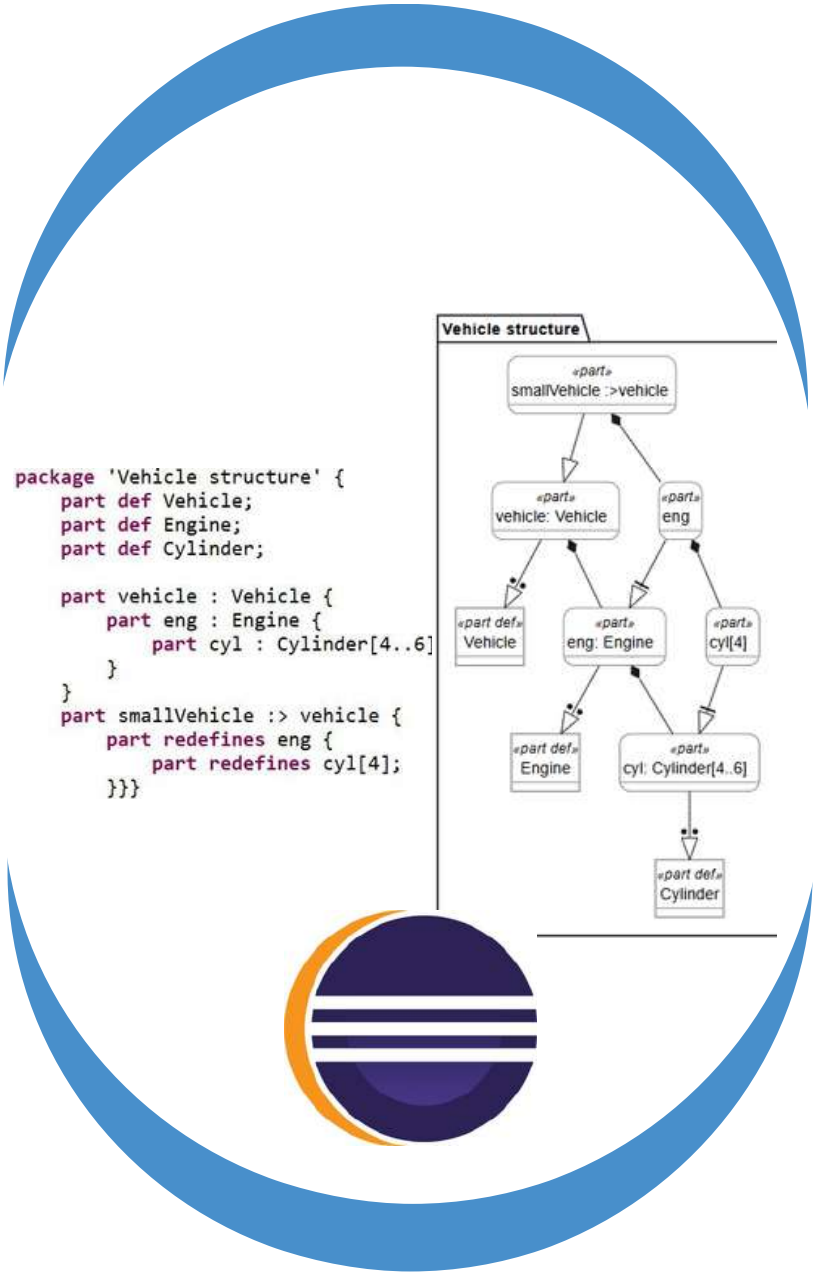
NEW

MODEL-BASED COLLABORATION BETWEEN SYSTEMS ENGINEERING (MBSE) AND SAFETY ASSESSMENT (MBSA)

SE-SAF-02

Last updated:
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Version : 1.0



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DESCRIPTION

Provide participants with a clear understanding of how to integrate Model-Based Security Assessment (MBSA) into the Model-Based Systems Engineering (MBSE) process using a model-based approach, with an emphasis on the interaction between the architectural model and security activities, the exchange of critical information, and the use of security feedback to guide architectural decisions.

GOALS



At the end of the training, the trainee will be able to:

- Describe the overall process between systems engineering (SE) and security activities
- Understanding the necessary information exchanged between systems engineering (SE) and safety analysis (SA), and how to capture it in an MBSE approach.
- Guide architectural decisions based on safety feedback



PREREQUISITES

No prerequisites



TARGET AUDIENCE

This training is aimed more specifically at systems engineers who need basic knowledge in security and wish to learn MBSA as well as the points of exchange with the SE domain.

CHARACTERISTICS OF THE TRAINING

DURATION

1 day (7 hours)

TRAINING METHOD

- Theoretical presentation (slides), discussion (sharing) around questions (exercises)
- Questionnaires to verify the acquisition of essential concepts
- Final evaluation based on the trainer's assessment of practical exercises
- Certificate of completion of training

MATERIAL

Each participant must bring their PC, with CSM version (2021 or later recommended) with the following plugins: Security and reliability analysis plugin, FTA plugin, RAAML plugin, ISO 26262 plugin. The PC must be able to connect to the internet to access the training extranet (Digiforma).

PRICES

PRICE EXCLUDING VAT (20%):
– INTER session: €1,100 per trainee (Reduced to €850 for each additional trainee from the same company)
– INTRA session: €2,550 for 3 to 8 trainees from the same company

Additional cost if the event takes place on our premises (room booking and lunch provided): €90 per day per participant

- Travel expenses will be added if the event takes place at your premises.

Access time: see Practical Information p.8

PROGRAM

RECAP OF INTRODUCTION TO SAFETY ASSESSMENT

- Need for safety
- Safety concepts
- IEC 61508 generic standard
- Overview of qualitative & quantitative techniques
- MBSE using CSM and MagicGridv2

INTRODUCTION TO MBSA

- Why MBSA?
- What is MBSA?
- Tools and approaches
- MBSA using CSM

PRELIMINARY RISK ANALYSIS (PRA)

- Black box perspective from MBSE
- PRA captured in CSM
- PRA requirements captured in CSM
- ISO 26262 plugin capabilities

FUNCTIONAL FAILURE MODES & EFFECTS ANALYSIS

- White box perspective from MBSE
- Design changes from PRA
- fFMEA process in CSM with design changes
- Traceability between design and fFMEA

FAILURE MODES, EFFECTS AND CRITICALITY ANALYSIS

- System design of MBSE
- FMECA captured in CSM with design suggestions
- Traceability between design and FMECA

FAULT TREE ANALYSIS

- Subsystem structure with physical architecture from MBSE
- FTA captured in CSM
- Traceability FTA with System Model
- Capabilities & Limitations of FTA plugin

CONCLUSION

- WMBSE & MBSA Integration at different levels
- Advantages and Limitations of CSM Plugins

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UPCOMING TRAINING COURSES

- MBSE AVEC MAGICGRID ET SYSML V2
- FUNCTIONAL ANALYSIS IN PRODUCT LINE CONTEXT
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- ZIG-ZAG BETWEEN ALM (POLARION / CODEBEAMER) AND SYSTEM MODELING TOOL (CATIA MAGIC / CAPELLA)
- MODELING A SYSTEM OF SYSTEMS WITH UAF
- TRANSITION BETWEEN SYSTEM OF SYSTEMS AND SYSTEM
- FUNCTIONAL VERIFICATION WITH INGESCAPE

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