



Interface Management

Key benefits of this training course

This training course provides participants with a practical introduction to **Interface Management** through hands-on exercises based on a complex system development case study. Participants learn how effective interface management contributes to system consistency, stakeholder coordination and overall project success.

Learning objectives

This course enables participants to:

- Understand and become familiar with the different types of interfaces and the importance of interface control for overall project performance.
- Understand the relationship between system architecture and interfaces.
- Understand Interface Management processes and practices.
- Assess and monitor interface maturity throughout the project lifecycle.
- Understand the relationship between Interface Management and Integration, Verification and Validation (IVV).

Teaching approaches

The course combines theoretical input with practical exercises based on a representative and accessible case study reflecting real project situations. Participants progressively apply the concepts and methods introduced during the training to a realistic engineering context.

Target audience

This training course is particularly valuable for anyone involved in the implementation of Systems Engineering during the design and development phases, including:

- System Architects
- Design Engineers
- Technical Experts
- Systems Engineers
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The course is suitable for both newcomers to Interface Management and experienced professionals wishing to strengthen and structure their practices.

In-house training

Duration: 1 day

Presential or remote learning

Customisation available

Language: French or English

Prerequisite: none

Recommendation: a good knowledge of Systems Engineering Fundamentals

Access timeframe: 2 weeks

Implementation timelines:

Based on the analysis of the client's needs

Evaluation:

Self-assessment of prior knowledge at the start of the training program

Self-Assessment form upon completion of Training

Methods used for the workshop:

In full-group and sub-groups, role-playing based on a central case study

8 to 12 participants

Disability access:

Yes – please contact us to discuss possible arrangements

Prices: please contact us



SETEC IPMC

Immeuble Central Seine

42/52 Quai de la Rapée

75012 PARIS

Tél. +33 1 82 51 43 00

formation@ipmc.setec.fr

Program

Systems Engineering and the Role of Interface Management

- Overview of Systems Engineering fundamentals
- Why Interface Management is essential for complex systems and the associated challenges

Interface Management Fundamentals

- Definition of an interface
- Functional interfaces and physical interfaces – key differences
- Typical Interface Management process within a Systems Engineering framework

Developing an Interface Management Strategy

- Developing an Interface Management strategy
- Relationship between the Systems Engineering development logic and Interface Management
- Relationship between Interface Management and Systems Architecture
- Roles and responsibilities
- Contribution of interfaces to the overall product strategy

Identifying and Analysing External Interfaces

- Different identification methodologies
- The importance of considering multiple stakeholder perspectives

Defining and Specifying Interface Requirements

- Criteria and considerations for defining and documenting interface requirements

Developing Interface Specifications

- Interface descriptions and specifications

Managing and Controlling Interface Requirements

- N² Matrix for interface analysis and optimisation
- Interface requirements reviews
- Traceability management

Interface Verification and Validation

- Interface Integration, Verification and Validation (IVV) strategy

Managing Interface Changes and Configuration Control

- Change management
- Configuration Management



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Key Figures

More than **20,000 participants** worldwide over nearly **20 years**.

For **90%** of participants (*), the training pedagogical progress is perfectly matching their needs.

97% of participants (*) highlight our trainers' ability to bring knowledge to life, drawing on their real-world professional experiences.

Our training programs meet the objectives (**) for **93%** of the participants (*)

(*) January 2025 – December 2025 period

(**) usefulness of the content for progress and overall satisfaction with the training course