

## Training

### Training and method transfer

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I deliver in-company training sessions to help industrial, IT, OT, methods, project and integration teams better understand the standards, models and architectures of digital industrial systems.

Training sessions can be delivered on site or remotely, in a standard format or adapted to a specific project context: MES, MOM, ERP-to-plant, batch, IT/OT interoperability, UNS, industrial ontologies, AI-ready data or industrial digital transformation.

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### A project-oriented approach

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The purpose is not only to present standards or concepts, but to help participants use them in real industrial projects: functional framing, architecture choices, interface specification, domain modelling, interoperability, data and transformation.

#### Understand

Clarify the fundamental concepts, models, responsibilities and architecture levels of industrial systems.

#### Apply

Connect standards and methods to concrete situations: MES, ERP-to-plant, automation, batch, interfaces, data and project work.

#### Transfer

Give teams a common language, decision criteria, reasoning models and operational points of attention.

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### Available formats

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Training can be delivered in two complementary ways: in-company sessions adapted to the context of an industrial organization or project team, and open inter-company sessions proposed with Automation Hub.

#### In-company training

Sessions adapted to your context: MES project, ERP-to-plant migration, IT/OT architecture, batch, interoperability, UNS, industrial data, AI or digital transformation. The content can be adjusted to your team's issues and project maturity.

#### Open inter-company sessions

Open sessions may be proposed with Automation Hub, allowing participants from different companies to train on the standards, methods and architectures of industrial systems.

[View Automation Hub training sessions](#)

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## 1. ISA-88 / IEC 61512 — Functional design of industrial cyber-physical systems

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A training course to understand and apply ISA-88 beyond the “batch manager” view: physical, procedural and process models, separation between product, process and equipment, modular automation and consistency between the real plant, sensors, actuators and operational processes.

### **Audience**

Digital transformation leaders, operations teams, methods and industrialization teams, project managers, automation engineers, process engineers and system integrators.

### **Content**

ISA-88 parts 1 and 3, physical model, procedural model, process model, equipment control, physical process control, recipes, PFC/PPC, PackML and project methodology.

### **Benefits**

Clarify batch and modular architectures, improve specifications, reduce ambiguities between process, automation, MES and operations.

**Indicative format:** standard 1-day session, on site or remote. Can be adapted to a batch, automation, MES or qualification project.

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## **2. ISA-95 / IEC 62264 / B2MML — MES-MOM and IT/OT interoperability**

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A training course to make practical use of ISA-95 in MES, MOM, ERP-to-plant and IT/OT interoperability projects: business objects, processes, transactions, messages, master data and interfaces between industrial applications.

### **Audience**

Industrial CIOs, industrial IT leaders, MES/MOM project managers, IT/OT architects, integrators, methods experts, automation engineers and consultants.

### **Content**

ISA-95 overview, physical, human, material and energy resources, procedural knowledge, operations management, transactions, messaging services, aliases, interoperability profiles and B2MML.

### **Benefits**

Avoid fragile point-to-point interfaces, clarify the ERP/MES/SCADA boundary, structure messages and share a common language between IT, OT and operations.

**Indicative format:** standard 1-day session, on site or remote. Can be adapted to a MES project, ERP-to-plant migration, specification work or architecture review.

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## **3. Intelligence and performance of industrial systems**

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A training course to read the industrial enterprise as a living sociotechnical system: information flows, autonomy, indicators, decision-making, complexity, performance, organizational intelligence and enterprise health.

### **Audience**

Executives, performance leaders, development and transformation leaders, information system leaders, enterprise architects, consultants and industrial managers.

### **Content**

Systems theory, information, complexity, cognition, organization, Viable System Model, fractal enterprise, regulation, indicators, global performance and systemic diagnosis.

## Benefits

Step back from decisions, indicators and management architectures; better understand amplification, filtering and misalignment effects within the enterprise.

**Indicative format:** standard 1-day session, on site or remote. Can be adapted for executive committees, industrial leadership, performance or transformation teams.

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## 4. Digital transformation of industrial systems

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A training course to address industrial digital transformation beyond technology trends: architecture, transformation debt, master data, interoperability, gradual migration, organization and alignment between operations, IT and OT.

### Audience

Executives, digital transformation leaders, CIOs, IT/OT leaders, performance leaders, consultants, project managers and industrial architects.

### Content

Industry 4.0, Smart Manufacturing, digital technologies, MES, automation, reference models, performance, opportunities, transformation debt, assets, configurations and gradual migration.

### Benefits

Prioritize transformation initiatives, avoid technology hype, better frame architectures, data and migration roadmaps for industrial systems.

**Indicative format:** standard 1-day session, on site or remote. Can be adapted to a transformation program or strategic review.

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## 5. Industrial ontologies, UNS and AI-ready data

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A training course to understand why industrial AI, UNS, digital twin and domain assistant projects require contextualized data connected to the objects, events, activities, resources, states and decisions of the industrial enterprise.

### Audience

Industrial leadership teams, data/AI teams, IT/OT architects, MES/MOM leaders, methods teams, integrators, consultants and transformation teams.

### Content

Domain models, vocabularies, reference data, knowledge graphs, industrial ontologies, UNS, data contextualization, alignment with ISA-88 / ISA-95 and semantic preparation for AI.

### Benefits

Prepare industrial data for advanced uses, avoid implicit or inconsistent models, and structure a semantic foundation usable by digital systems and AI.

**Indicative format:** 1-day introduction or workshop adapted to a UNS, industrial AI, knowledge graph, industrial data or target architecture project.

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## Training grounded in field experience

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These training sessions are grounded in long experience with industrial systems: process control, automation, MES, ERP-to-plant, interoperability, functional architecture, ISA/IEC standards, domain modelling and industrial digital transformation.

They can be used as initial training, executive awareness sessions, project team upskilling, request-for-proposal preparation, mission support or method transfer.

ISA-88ISA-95B2MMLMESMOMIT/OTBatchUNSIndustrial ontologiesAI-ready dataDigital transformation

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## Build an adapted training session

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Do you want to train a team, prepare a project or create a shared language between operations, IT, OT, methods and integrators?

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