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|  | ANSI/ISA-95 (IEC/ISO 62264)MES/MOM functional design and interoperability | **Training Course by** |
| **Objectives**Industry faces increasing agility requirements to timely adapt itself to fast changing environment. This concerns product development, facilities engineering, process improvement, innovative business models, technology opportunities. The consequence for IT is an acceleration of the digital transformation and a challenge for IT architectures. Business requirement expressiveness, flexible/adaptable processes and interoperability are major critical issues that are addressed by IEC61512 (ISA-88) and ISO/IEC62264 (ISA-95) leveraging the experience of numerous experts worldwide consolidated during the 20 years of development of these standards.The IEC61512 standard introduced in 1995 the concept of cyber-physical system honored by Industry 4.0: the informational artifact integrates with the physical object that collaborates with others while participating in a deterministic orchestration.This standard is often shranked to recipe sequencers for batch processes. Recent interest in the "Industrial Internet of Things" (IIOT) is leading to renewed attention to this standard.This course adds formal modeling of physical flows which allows for strong consistency between the actual installation, sensors, actuators and operational and transformational, physical and business processes. It covers the essential points for cyber-physical and systemic automation.Attendees profilesCIOs, experts in charge of the specification, design, development, and integration of industrial IT applications, industry related cursi’s students.PrerequisiteBasic knowledge of industrial production management as an operator, process engineer, computer scientist, control engineer. | **Content****Introduction*** Standardization bodies involved
* IT transformation lifecycle, Modeling framework
* Introduction to the standard parts

Structural modeling* Physical, Human and Material resources
* Resource attachment, relationships, and calendars
* Segment concept, physical process knowledge

Functional modeling* Physical Process Management
* Operations Management
* Operations Planing and scheduling
* Operations capability
* Alerts and KPIs
* Functional specification

 | Interoperability* Transactions (part 5)
* Messaging Service Model (part 6)
* Alias service model (part 7)
* Information exchange profiles (part 8)
* B2MML explanation and practice
* Application – Interoperability methodology

Course handoutThe course includes comprehensive documentation for the practical application of the knowledge acquired.Information/Registration : XXX |