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DIGITAL TWIN APPLICATIONS IN PROCESS INDUSTRIES

Start Date:	15/02/2027	**End Date:**	19/02/2027
Categories:	Oil & Gas	**Venues:**	Paris
Formats:	In Person	**Instructors:**	

OVERVIEW

This course introduces the concept of digital twins and their application in process industries. Participants will explore real-time data integration, predictive simulation, and asset performance management using digital twin platforms.

OBJECTIVES

By the end of this course, participants will be able to: • Understand digital twin architecture and enabling technologies. • Integrate simulation models with live plant data. • Use digital twins for predictive maintenance and performance optimization. • Apply digital twin insights to support operations and asset decisions. • Evaluate digital twin platforms and implementation strategies.

COURSE OUTLINE

1. Digital Twin Concepts and Industrial Relevance 2. Data Integration and Simulation Model Linking 3. Real-Time Monitoring and Predictive Analytics 4. Asset Management and Optimization Applications 5. Digital Twin Strategy and Roadmap Development

TARGET AUDIENCE

Digital transformation leads, process engineers, IT/OT integration managers, and asset performance analysts in process industries.

METHODOLOGY

Tech briefings, platform demos, strategy development labs, and integration case analysis.

CONCLUSION

Participants will leave with a strategic and technical foundation for implementing and leveraging digital twin solutions in industrial environments.

DAILY AGENDA

Day 1: Foundations of Digital Twin Technology

Understanding digital twin concepts, components, and industry use cases.

Day 2: Modeling and Data Synchronization

Linking physical systems to simulation and real-time data streams.

Day 3: Predictive Simulation and Analytics

Forecasting equipment behavior, performance, and failure using AI.

Day 4: Operational Optimization and Maintenance

Using digital twins to optimize OEE, reduce downtime, and schedule maintenance.

Day 5: Strategic Roadmap and Implementation

Defining business value, vendor selection, and digital transformation strategy.

For more information, please contact us:
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