

DIGITAL TWIN APPLICATIONS IN PROCESS INDUSTRIES

Start Date:	23/11/2026	End Date:	27/11/2026
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.

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