

## DIGITAL TWIN APPLICATIONS IN PROCESS INDUSTRIES

<b>Start Date:</b>	16/11/2026	<b>End Date:</b>	20/11/2026
<b>Categories:</b>	Oil & Gas	<b>Venues:</b>	Paris
<b>Formats:</b>	In Person	<b>Instructors:</b>	

### 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:*

*Email: [info@gatewayconsulting.com](mailto:info@gatewayconsulting.com) | Phone: +96522968641*

*<https://gatewayconsulting.com>*