

Digital Midstream Operations: IoT, Cloud Platforms & Control Systems

COURSE OVERVIEW

This course describes how digital technologies are reshaping the midstream oil and gas sector by enhancing operational efficiency, safety and reliability. The course highlights how digital transformation drives value across pipeline management, storage and transportation, ensuring resilience and competitiveness in a rapidly evolving energy landscape. Participants will gain insights into the integration of IoT-enabled devices, advanced control systems, and cloud-based platforms for real time monitoring, predictive maintenance and optimized decision making.

WHO SHOULD ATTEND?

This course is tailored for midstream professionals, including operations managers, pipeline engineers, instrumentation and control specialists, IT/OT integration teams, and decision makers responsible for driving digital transformation initiatives. It is also valuable for consultants, solution providers, and business leaders seeking to leverage IoT, cloud and control technologies to optimize midstream operations.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the role of IoT and cloud platforms in digital midstream operations.
- Learn how advanced control systems enhance operational visibility, safety, and efficiency.
- Gain practical knowledge of data integration, analytics, and predictive maintenance applications.
- Explore cybersecurity considerations in connected midstream infrastructures.
- Develop strategies for adopting and scaling digital transformation across operations.
- Optimize midstream performance using real-time monitoring and AI-driven operational insights.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- How IoT monitors midstream assets in real time.
- Using cloud platforms for scalable data storage and analytics.
- Integrating SCADA and DCS for automation and remote control.
- Predictive maintenance with AI to reduce downtime and extend asset life.
- Cybersecurity for protecting midstream digital systems.
- Digital transformation benefits for efficiency, safety, and compliance.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded