MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

DIGITAL TRANSFORMATION IN DOWNSTREAM FOR MANAGERS

"Drive operational excellence, safety, and profitability in downstream operations through digital transformation."

Schedule

Venue	Fees
In-House	ASK FOR THE QUOTATION

► **Available delivery methods:** In-House Training

Introduction

The downstream oil and gas sector—encompassing refining, petrochemicals, storage, and distribution—is undergoing rapid digitization. This course equips managers with the knowledge and strategic tools to lead and manage digital transformation projects in downstream environments. Participants will explore how technologies such as AI, IoT, advanced analytics, cloud systems, and digital twins are reshaping maintenance, process safety, logistics, asset reliability, and customer engagement.

Objectives

By the end of this program, participants will be able to:

- Understand the scope and drivers of digital transformation in downstream
- Identify key technologies and their applications in refining and distribution
- Build a roadmap for digital innovation in plant operations and maintenance
- Leverage data analytics for asset performance, predictive maintenance, and HSE improvement
- Overcome change management and cybersecurity challenges
- Align digital initiatives with business and ESG objectives

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Why Attend

Digital transformation isn’t just about adopting new tools—it’s about reshaping how your organization operates. This course empowers downstream managers to lead with confidence, reduce inefficiencies, cut downtime, boost margins, and support decarbonization efforts.

Target Audience

- Refinery, plant, and terminal managers
- Process and operations managers
- Maintenance and reliability engineers
- IT and digital transformation leaders
- HSE, quality, and logistics professionals
- Project and asset integrity managers

Individual Benefits

- Gain fluency in digital tools shaping the downstream value chain
- Identify transformation opportunities in your area of responsibility
- Learn to lead change initiatives and navigate resistance
- Use data to drive performance and operational insight

Organizational Benefits

- Improve plant uptime, energy efficiency, and product quality
- Enable predictive and prescriptive maintenance strategies
- Optimize distribution, storage, and inventory management
- Enhance ESG compliance and reporting via digital tools

Instructional Methodology

- Expert-led presentations and industry-specific case studies
- Live demonstrations of downstream digital tools
- Collaborative group workshops
- Scenario planning and transformation project simulations
- Action plan development for your own organization

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Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

Training Hours: 7:30 AM – 3:30 PM

Daily Format: 3–4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: The Digital Downstream Landscape

Module 1: Digitalization Trends in Oil & Gas – Global Outlook (07:30 – 09:30)

Module 2: Key Drivers of Downstream Transformation (09:45 – 11:15)

Module 3: Use Cases in Refining, Petrochemicals, and Terminals (11:30 – 01:00)

Module 4: Workshop: Maturity Assessment of Current Operations (02:00 – 03:30)

Day 2: Core Technologies for Downstream Transformation

Module 1: IoT Sensors, AI, and Advanced Process Control (07:30 – 09:30)

Module 2: Digital Twins and Simulation Technologies (09:45 – 11:15)

Module 3: Cloud & Edge Computing in Plant Operations (11:30 – 01:00)

Module 4: Case Study: Predictive Maintenance in Refinery Units (02:00 – 03:30)

Day 3: Data-Driven Operations & Maintenance

Module 1: Operational Intelligence & Data Analytics (07:30 – 09:30)

Module 2: Performance Dashboards & KPI Tracking (09:45 – 11:15)

Module 3: Process Safety and HAZOP Digitization (11:30 – 01:00)

Module 4: Group Exercise: Build a Digital KPI Scorecard (02:00 – 03:30)

Day 4: People, Cybersecurity & Change Management

Module 1: Organizational Change in a Digital Context (07:30 – 09:30)

Module 2: Upskilling & Reskilling Operational Staff (09:45 – 11:15)

Module 3: Cybersecurity Risk Management (11:30 – 01:00)

Module 4: Stakeholder Engagement & Communication Planning (02:00 – 03:30)

Day 5: Strategic Planning & Execution

Module 1: Roadmap Development for Digital Initiatives (07:30 – 09:30)

Module 2: Funding, ROI, and Business Case Preparation (09:45 – 11:15)

Module 3: Measuring Success & Continuous Improvement (11:30 – 01:00)

Module 4: Final Presentation – Digital Transformation Blueprint (02:00 – 03:30)

Certification

Participants will receive a **Certificate of Completion: Digital Transformation in Downstream for Managers**, validating their ability to lead technology-driven innovation and improve performance across the downstream sector.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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