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 MINING (EXTRACTIVE INDUSTRIES) FOR MANAGERS

"Lead the Future of Mining with Smart, Sustainable, and Connected Operations."

Schedule

Venue	Fees
In-House	ASK FOR THE QUOTATION

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

Introduction

This comprehensive program is tailored for mid to senior-level managers in the mining and extractive industries who are leading or contributing to digital transformation initiatives. The course explores the adoption of digital technologies—such as automation, IoT, AI, robotics, digital twins, and analytics—to improve operational performance, safety, sustainability, and profitability. Through hands-on strategy design and real-world case studies, participants will gain the leadership insight and technical awareness necessary to champion innovation across mine sites, processing plants, and corporate operations.

Objectives

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

- Understand the core pillars of digital transformation in mining
- Align digital technologies with business objectives and ESG goals
- Apply emerging technologies such as AI, IoT, and digital twins in mining operations
- Develop and lead digital transformation roadmaps tailored to their organizations
- Improve asset reliability, safety, and productivity using data-driven strategies

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Why Attend

The future of mining is digital. This course will empower managers to move beyond legacy systems, adopt advanced operational models, and embrace smart, connected, and efficient mining practices that meet global sustainability and efficiency standards.

Target Audience

- Mining and Operations Managers
- Maintenance and Reliability Leaders
- IT Managers and Digital Transformation Officers
- Process Engineers and Technical Supervisors
- Innovation Leaders and Business Analysts

Individual Benefits

- Gain fluency in digital mining concepts and strategy development
- Learn to manage digital integration across operational, maintenance, and safety functions
- Stay competitive and future-ready with the latest in mining tech innovation
- Build credibility as a leader of change and transformation in mining

Organizational Benefits

- Enhance productivity, equipment uptime, and predictive maintenance
- Increase safety and reduce human exposure in hazardous environments
- Reduce costs and environmental impacts with optimized operations
- Build agile, scalable, and sustainable mining systems

Instructional Methodology

- Case-based learning from global mining leaders
- Group workshops and simulation exercises
- Strategic planning labs and scenario analysis
- Technology demos and guided digital tool walkthroughs

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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: Introduction to Digital Mining

Module 1: Global Trends in Digital Transformation of Mining (07:30 – 09:30)

Module 2: Key Challenges and Opportunities in Extractive Industries (09:45 – 11:15)

Module 3: Building Blocks of Smart Mining Ecosystems (11:30 – 01:00)

Module 4: Strategy Alignment – Vision, Culture, and Change Management (02:00 – 03:30)

Day 2: Technology Enablers & Use Cases

Module 1: IoT & Smart Sensors for Real-Time Asset Monitoring (07:30 – 09:30)

Module 2: Automation, Drones, and Robotics in Mining (09:45 – 11:15)

Module 3: Artificial Intelligence & Machine Learning Applications (11:30 – 01:00)

Module 4: Case Study: Autonomous Haulage & Predictive Maintenance (02:00 – 03:30)

Day 3: Data-Driven Operations & Decision-Making

Module 1: Operational Analytics & Digital Dashboards (07:30 – 09:30)

Module 2: Big Data Architecture in Mining Enterprises (09:45 – 11:15)

Module 3: Digital Twins & Virtual Commissioning (11:30 – 01:00)

Module 4: Integrating OT & IT Systems (02:00 – 03:30)

Day 4: Sustainability, Safety & ESG with Digital Tools

Module 1: Environmental Monitoring and Reporting with IoT (07:30 – 09:30)

Module 2: Enhancing Worker Safety through Wearables & AR/VR (09:45 – 11:15)

Module 3: Digital Compliance and ESG Performance Metrics (11:30 – 01:00)

Module 4: Interactive Workshop – Designing a Smart Mine Site (02:00 – 03:30)

Day 5: Strategic Roadmapping & Transformation Planning

Module 1: Developing a Digital Transformation Roadmap (07:30 – 09:30)

Module 2: KPIs, ROI, and Success Metrics (09:45 – 11:15)

Module 3: Digital Talent, Skills, and Organizational Structure (11:30 – 01:00)

Module 4: Final Group Presentations & Certification Wrap-Up (02:00 – 03:30)

Certification

Upon successful completion of the course, participants will receive a **Certificate in Digital Transformation in Mining for Managers**, demonstrating their ability to lead and contribute to smart mining initiatives.

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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In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

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