



AI-Enabled Water Systems Management Training Course

28 June – 2 July 2027
Casablanca

AI-Enabled Water Systems Management Training Course

Ref: 195_117711 **Date:** 28 June – 2 July 2027 **Location:** Casablanca **Fees:** 4100 Euro

Overview

AI-Enabled Water Systems Management Training Course is a five-day advanced course for water utility managers, treatment and distribution leaders, asset managers, environmental engineers, transformation personnel, and decision-makers, who leave with an AI-Enabled Water Systems Improvement Roadmap. Participants connect sensor and operational data to demand forecasts, leakage and anomaly detection, asset decisions, water quality decision support, energy priorities, human oversight, and performance indicators. Agile Leaders Training Center delivers training in managed AI adoption for water systems.

Who Should Attend

- Water utility leadership personnel responsible for service performance and improvement investment
- Treatment and distribution personnel responsible for operations, quality, flow, pressure, and reliability
- Asset-management personnel responsible for condition, renewal, maintenance priorities, and lifecycle value
- Environmental and data personnel responsible for monitoring evidence, sensor readiness, and decision support
- Digital transformation personnel responsible for technology portfolios, adoption, risk, and value tracking

The course assumes participants can evaluate water-system operations, performance evidence, and improvement proposals at work, and it leaves out coding, model development, control-system programming, equipment maintenance, and vendor-platform configuration.

Departments and Industries

The course supports utility management and operations across drinking-water treatment, distribution networks, wastewater services, industrial water operations, and environmental infrastructure.

- Water treatment and process operations
- Distribution, network control, and leakage management
- Asset management and maintenance planning
- Water quality, environment, and laboratory services
- Data, technology, cybersecurity, and transformation

Learning Objectives

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

- Analyze water-system outcomes and AI decision opportunities
- Evaluate sensor, data, and workflow readiness
- Prioritize forecasting, anomaly, asset, and quality applications
- Apply human oversight and cyber-risk interfaces
- Build performance indicators and review gates
- Design a staged water-systems improvement roadmap

Course Agenda

Day 1: Water-System Outcomes and Digital Readiness

- Water-System Outcome and Constraint Map
- Digital Water Maturity Assessment
- Sensor and Smart-Meter Coverage Grid
- Operational Data Quality and Integration Scorecard
- AI Use-Case Boundary and Decision Map

Day 2: Demand, Leakage, and Network Decisions

- Demand Forecasting Evidence Canvas
- Flow-and-Pressure Anomaly Detection Map
- Leakage Localization Decision Workflow
- Non-Revenue Water Opportunity Matrix
- Network Intervention Priority Board

Day 3: Assets, Energy, and Water Quality

- Asset Condition and Failure-Risk Scorecard
- Predictive Maintenance Decision Gate
- Pumping Energy Optimization Opportunity Map
- Water Quality Signal and Alert Matrix
- Treatment Decision-Support Boundary

Day 4: Oversight, Implementation, and Performance

- Human Oversight and Operational Authority Matrix
- Cybersecurity and Control-System Interface Checklist
- AI Application Value and Feasibility Matrix
- Implementation Dependency and Adoption Map
- Water-System Performance Indicator Tree



Day 5: Water-System Improvement Practice and Capstone

- Suggested Exercise: Diagnose a Sensor and Data Readiness Gap
- Suggested Exercise: Prioritize Leakage and Demand Applications
- Suggested Exercise: Challenge an Asset or Quality Recommendation
- Suggested Exercise: Test Oversight and Implementation Gates
- Capstone Exercise: AI-Enabled Water Systems Improvement Roadmap

Practical Exercises

The course uses suggested activities that turn water-system data and operational needs into reviewable improvement decisions.

- Suggested activity: map treatment and distribution outcomes to available sensors, data owners, and decision points
- Suggested activity: compare leakage, forecasting, asset, energy, and quality applications by value, readiness, and risk
- Suggested activity: define human review, operational authority, cyber interfaces, and exception escalation
- Suggested activity: assemble staged initiatives, dependencies, indicators, and review gates into an improvement roadmap

FAQs

Who suits the AI-Enabled Water Systems Management Training Course, and what does it assume?

The course suits experienced utility, operations, asset, environment, data, and transformation personnel who assess water-system evidence and investments without developing models or programming control systems.

How does AI-enabled water systems management training differ from data science training?

AI-enabled water systems management training focuses on utility outcomes, use-case choices, readiness, workflow integration, oversight, implementation, and performance rather than coding, algorithm development, or model deployment.

Which water-system applications should utilities prioritize?

Utilities should compare service value, data readiness, operational fit, decision sensitivity, reliability, cyber interfaces, implementation dependencies, human authority, reversibility, and measurable outcomes across forecasting, leakage, assets, energy, and quality.



What data readiness supports AI-enabled water systems?

Data readiness requires defined sensor coverage, reliable readings, known gaps, consistent identifiers, usable history, integration across operational sources, accountable ownership, quality checks, contextual records, and a workflow that acts on resulting evidence.

How should AI-enabled water-system performance be reviewed?

Performance should be reviewed against service, leakage, asset, energy, quality, adoption, reliability, and risk indicators, with documented decisions to continue, adjust, scale, pause, or stop each application.

Conclusion

Participants take back an AI-Enabled Water Systems Improvement Roadmap linking system outcomes, sensor and data readiness, prioritized applications, oversight, implementation dependencies, and indicators. It changes how utility teams compare digital proposals and stage operational adoption. The roadmap supports traceable investment, human authority, cyber-risk interfaces, workflow integration, and evidence-based performance review.