



Utility Infrastructure Management Training: Power, Water & GIS

16 – 20 November 2026
London

Utility Infrastructure Management Training: Power, Water & GIS

Ref: 103600684_84045 **Date:** 16 – 20 November 2026 **Location:** London **Fees:** 5700 Euro

Course Overview:

Utility Infrastructure Management Training for utility engineers and infrastructure professionals involved in utility planning, power systems, water networks, energy management, GIS, investor connections, and long-term infrastructure development. The course covers Utility Management Training, Utility Engineering Training, Utility Infrastructure Planning Training, Utility Capacity Planning Training, Utility Network Planning Training, Utility Demand Assessment, Infrastructure Capacity Assessment, Utility Requirements Planning, and Utility Connection Capacity Assessment.

It also integrates Power Systems Management Training, Power Distribution Planning, Water Network Management Training, Water Distribution Network Training, Industrial Energy Management, Energy Management Training, Utility Energy Management, Energy Performance Management, Energy Demand Management, Energy Consumption Analysis, Utility Asset Management Training, and Sustainable Utility Management.

GIS topics include GIS for Utility Engineers, GIS for Utility Management, GIS Utility Network Training, GIS for Infrastructure Planning, GIS for Utility Infrastructure, Utility Network GIS, ArcGIS for Utility Management, ArcGIS Utility Network Training, Geospatial Utility Planning, Spatial Analysis for Utilities, GIS Infrastructure Asset Management, and GIS-Based Utility Planning.



Target Audience:

- Utility Engineers
- Senior Utility Engineers
- Electrical Engineers
- Power Systems Engineers
- Water Network Engineers
- Infrastructure Engineers
- Infrastructure Planning Engineers
- GIS Engineers
- GIS Specialists
- Energy Engineers
- Asset Management Engineers
- Utility Planning Specialists
- Utility Connection Engineers
- Network Planning Engineers
- Engineering Project Managers
- Infrastructure Development Managers
- Technical Services Engineers
- Industrial Development Engineers
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Port and Free Zone Infrastructure Professionals

Targeted Organizational Departments:

- Utility Engineering
- Infrastructure Planning and Development
- Electrical and Power Systems
- Water and Distribution Networks
- Energy Management
- GIS and Geospatial Services
- Asset Management
- Engineering and Technical Services
- Utility Connection Management
- Investor Connection Services
- Master Planning
- Operations and Maintenance
- Project Engineering
- Capital Projects
- Sustainability
- Industrial Development



Targeted Industries:

- Ports and Maritime Infrastructure
- Free Zones and Economic Zones
- Industrial Parks
- Utilities and Public Services
- Power and Electricity
- Water and Wastewater
- Oil and Gas
- Petrochemicals
- Manufacturing
- Metals and Mining
- Logistics and Warehousing
- Infrastructure Development
- Airports
- Smart Cities
- Municipal Infrastructure
- Engineering and Construction
- Energy-Intensive Industrial Facilities



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Course Offerings:

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



- Develop integrated utility infrastructure plans
- Conduct Utility Demand Assessment
- Apply Utility Demand Forecasting
- Perform Infrastructure Capacity Assessment
- Conduct Utility Connection Capacity Assessment
- Plan New Customer Utility Connections
- Apply Utility Service Connection Planning
- Develop Utility Requirements Planning
- Apply Utility Network Planning
- Plan power distribution capacity
- Assess electrical load requirements
- Evaluate water network capacity
- Improve water distribution planning
- Apply Industrial Energy Management
- Improve Utility Energy Efficiency
- Conduct Energy Consumption Analysis
- Apply GIS for Utility Management
- Use GIS-Based Utility Planning
- Apply Geospatial Utility Planning
- Use Spatial Analysis for Utilities

- Improve Utility Asset Management
- Prioritize Utility Infrastructure Development
- Support Industrial Infrastructure Development
- Apply Port Utility Infrastructure Management
- Support Free Zone Infrastructure Planning

Training Methodology:

This course uses an application-focused methodology designed around real utility engineering and infrastructure-planning decisions rather than purely theoretical instruction. Participants work through industrial utility scenarios covering power, water, energy, customer connections, GIS, and long-term capacity development.

Case studies are used to examine Utility Connection Management, New Customer Utility Connections, Utility Demand Assessment, infrastructure constraints, and Utility Connection Capacity Assessment. Participants analyze development scenarios and determine when existing infrastructure can support new demand and when reinforcement, expansion, or alternative connection strategies are required.

Practical group exercises address Utility Network Planning Training, Power Distribution Planning, Water Network Management Training, Energy Demand Management, and Utility Asset Management Training. GIS-oriented sessions demonstrate how GIS for Utility Engineers, ArcGIS for Utility Management, Utility Network GIS, and Spatial Analysis for Utilities can support network visualization, tracing, design alternatives, capacity understanding, and stakeholder coordination. The supplied GIS material highlights real-world modeling, visualization and analytics, and coordination as central capabilities for modern utility engineering.

Water-related exercises also incorporate maintenance planning, work-order information, asset records, performance monitoring, preventive maintenance, inventory, and lifecycle considerations drawn from established water utility maintenance management principles.

Facilitated discussions and daily reflection sessions connect technical analysis with practical decisions in industrial and port infrastructure environments.

Course Toolbox:

- Utility Demand Assessment Framework
- Utility Demand Forecasting Template
- Infrastructure Capacity Assessment Template
- Utility Connection Capacity Assessment Checklist
- Utility Requirements Planning Template
- Utility Connection Planning Workflow
- Utility Service Connection Checklist
- Power Capacity Planning Examples
- Electrical Load Assessment Examples
- Water Demand Planning Examples
- Water Network Capacity Examples
- Utility Network Constraint Register
- Infrastructure Development Prioritization Matrix
- Utility Asset Management Framework
- Energy Consumption Analysis Examples
- Energy Efficiency Checklist
- Utility Energy Management KPI Examples
- GIS Utility Planning Examples
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GIS Network Visualization Examples

- Utility Network GIS Examples
- Spatial Analysis Scenarios
- Geospatial Utility Planning Examples
- ArcGIS Utility Network Concepts
- Investor Connection Assessment Template
- Infrastructure Development Roadmap Example

Tools and software licenses are not provided. The course includes insights and examples of relevant tools only.



Course Agenda:

Day 1: Integrated Utility Infrastructure Planning

- **Topic 1:** Utility Infrastructure Management Fundamentals
- **Topic 2:** Industrial Utility Planning and Infrastructure Requirements
- **Topic 3:** Utility Demand Assessment and Demand Forecasting
- **Topic 4:** Infrastructure Capacity Assessment
- **Topic 5:** Integrated Utility Planning for Industrial Development
- **Topic 6:** Long-Term Utility Infrastructure Development
- **Reflection & Review:** Utility planning priorities, constraints, and development decisions



Day 2: Power, Water and Network Capacity Planning

- **Topic 1:** Power Systems Management for Utility Engineers
- **Topic 2:** Electrical Load and Capacity Planning
- **Topic 3:** Power Distribution Planning and Network Constraints
- **Topic 4:** Water Network Management and Demand Planning
- **Topic 5:** Water Distribution Network Capacity and Performance
- **Topic 6:** Utility Network Optimization and Resilience
- **Reflection & Review:** Power and water capacity planning decisions



Day 3: Utility Connections and Industrial Development

- **Topic 1:** Utility Connection Planning Framework
- **Topic 2:** Utility Connection Capacity Assessment
- **Topic 3:** New Customer Utility Connections
- **Topic 4:** Utility Service Connection Planning
- **Topic 5:** Investor Utility Requirements and Technical Coordination
- **Topic 6:** Port and Free Zone Infrastructure Planning
- **Reflection & Review:** Connection feasibility, capacity, and investor support



Day 4: GIS for Utility Infrastructure Management

- **Topic 1:** GIS for Utility Engineers
- **Topic 2:** GIS for Infrastructure Planning
- **Topic 3:** Utility Network GIS and Data Management
- **Topic 4:** ArcGIS Utility Network Concepts
- **Topic 5:** Geospatial Utility Planning and Spatial Analysis
- **Topic 6:** GIS Infrastructure Asset Management
- **Reflection & Review:** Applying GIS to utility planning and engineering decisions



Day 5: Energy, Assets and Long-Term Utility Performance

- **Topic 1:** Industrial Energy Management
- **Topic 2:** Energy Consumption and Performance Analysis
- **Topic 3:** Energy Efficiency for Utilities
- **Topic 4:** Utility Asset Management and Lifecycle Planning
- **Topic 5:** Infrastructure Investment and Development Priorities
- **Topic 6:** Integrated Utility Development Roadmap
- **Reflection & Review:** Building a sustainable utility infrastructure strategy

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

A technical or engineering background with exposure to utilities, infrastructure, power systems, water networks, GIS, energy, or asset management is recommended.

How long is each day's session, and is there a total number of hours required for the entire course?

Each day's session is generally structured to last around 4-5 hours, with breaks and interactive activities included. The total course duration spans five days, approximately 20-25 hours of instruction.

Is this course focused only on GIS and ArcGIS?

No. It covers utility infrastructure planning, power, water, energy, asset management, utility connections, and GIS applications.

How This Course is Different from Other Utility Management Courses:

This course differs from conventional Utility Management Training because it is structured around the responsibilities of engineers managing infrastructure development rather than focusing only on utility operations or general utility-sector management.

The program integrates Utility Infrastructure Planning Training, Utility Capacity Planning Training, power systems, water networks, energy management, investor connection planning, GIS, and asset management into one coordinated framework. Participants therefore consider the complete infrastructure lifecycle—from Utility Demand Forecasting and Infrastructure Capacity Assessment through Utility Connection Planning, network development, asset management, and long-term investment decisions.

A particularly distinctive component is the integration of GIS for Utility Management. Instead of treating GIS as simply a mapping system, the course examines its role in real-world network modeling, network analysis, engineering visualization, design coordination, asset information, and infrastructure planning. Modern GIS frameworks can connect design, construction, operations, asset management, and stakeholder information around a common spatial foundation.

The program also gives substantial attention to industrial and investor requirements through Industrial Utility Planning, Utility Connection Capacity Assessment, Port Utility Infrastructure Management, and Free Zone Infrastructure Planning. This makes it especially suitable for utility engineers working in ports, industrial zones, economic zones, and other infrastructure-intensive environments where investment growth must be matched by technically reliable utility capacity.