

## Infrastructure and Digital Services

*Istanbul (Turkey)*

*15 - 26 June 2025*

UK Training

# PARTNER



## Infrastructure and Digital Services

Code: IT28 From: 15 - 26 June 2025 City: Istanbul (Turkey) Fees: 7800 Pound

### Introduction

As the digital era reshapes how infrastructure supports economies, governments, and societies, it is essential to integrate physical infrastructure with digital technologies to deliver smart, secure, and sustainable services. This in-depth training course explores the key elements of digital infrastructure design, implementation, and management. It covers global best practices, policy frameworks, technology trends, and real-world applications, empowering professionals to lead infrastructure innovation and digital service transformation.

### Course Objectives

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

- Understand the foundational components and architecture of modern digital infrastructure.
- Evaluate digital readiness and infrastructure maturity levels.
- Planned and delivered smart infrastructure projects aligned with national goals.
- Address cybersecurity, digital governance, and regulatory requirements.
- Integrate sustainability, innovation, and emerging technologies into infrastructure planning.

### Course Outlines

#### Day 1: Introduction to Digital Infrastructure

- Defining digital infrastructure in the modern era.
- Evolution of digital services and emerging technology ecosystems.
- Key enablers: connectivity, cloud computing, data, and AI.
- Infrastructure lifecycle and digital maturity assessment.
- Global case studies of digital transformation projects.

#### Day 2: Strategic Planning and Policy Frameworks

- National strategies for infrastructure development.
- Government roles and Public-Private Partnership PPP models.
- Regulatory and legal frameworks for digital services.
- Infrastructure master planning and long-term roadmaps.
- Building institutional and organizational capacity.

#### Day 3: Connectivity and Network Infrastructure

- Planning and expanding broadband infrastructure.
- 4G/5G deployment and wireless communication systems.
- Fiber optic networks and urban digital connectivity.
- Network quality of service QoS and performance management.



- Building resilient and redundant digital networks.

#### Day 4: Data Centers and Cloud Infrastructure

- Designing scalable, secure, and energy-efficient data centers.
- Cloud service models: IaaS, PaaS, SaaS – advantages and risks.
- Edge computing and decentralized architecture.
- Storage, backup, and high availability systems.
- Managing cloud contracts, costs, and vendor relationships.

#### Day 5: Internet of Things IoT and Smart Infrastructure

- Overview of smart cities, smart buildings, and smart mobility.
- IoT architecture and protocols for communication.
- Sensor integration and real-time data monitoring.
- Tools for data processing, analytics, and visualization.
- Cyber-physical systems and infrastructure automation.

#### Day 6: Designing and Delivering Digital Public Services

- E-government platforms and integrated citizen services.
- Service design methodologies and inclusive access models.
- Mobile-first and omnichannel service delivery strategies.
- Key performance indicators KPIs for digital service quality.
- UX design and human-centered service transformation.

#### Day 7: Cybersecurity and Infrastructure Protection

- Cyber threats targeting critical infrastructure.
- Security frameworks and architecture design.
- Incident detection, response, and recovery planning.
- Identity and access management IAM practices.
- Compliance with ISO 27001, NIST, GDPR, and other standards.

#### Day 8: Sustainability and Green Infrastructure

- Principles of sustainable infrastructure design.
- Energy-efficient ICT infrastructure strategies.
- Green data centers and renewable energy integration.
- Climate resilience in infrastructure planning.
- Environmental and social impact assessments ESIA.

#### Day 9: Project Implementation and Monitoring

- Full project lifecycle management: feasibility to handover.
- Procurement processes and infrastructure tenders.
- Monitoring, evaluation, and quality assurance frameworks.
- Change management in digital transformation projects.
- Communication and stakeholder engagement planning.

## Day 10: Innovation, Emerging Trends, and Wrap-up

- Role of AI, blockchain, and emerging tech in infrastructure.
- Open data, interoperability, and digital sovereignty.
- Future trends: digital twins, metaverse, and smart cities.
- Final group presentations: project proposals and action plans.
- Course review, evaluation, and certification ceremony.

## Why Attend This Course: Wins & Losses!

- Practical skills to lead national digital infrastructure initiatives.
- Confidence in managing secure, future-proof infrastructure systems.
- Readiness to integrate innovation and sustainability in planning.
- Ability to align projects with national digital transformation goals.
- Exposure to global case studies and applied success models.

## Conclusion

By the end of this course, participants will have the vision, knowledge, and tools to design and implement digital infrastructure that supports economic growth, citizen services, and long-term sustainability.

They will be positioned to lead smart transformation efforts that are secure, inclusive, and responsive to future challenges.





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