

Digital Transformation, IoT & AI (4-Day Program)

Category

Digital Strategy, Innovation & Emerging Technologies

Delivery

In-house Training

Customization

Scenarios reflect enterprise modernization, smart infrastructure, AI-enabled operations, and real-time decision environments.

Target Audience

Digital transformation leaders, ICT managers, project heads, innovation champions, operations leaders, and professionals responsible for enabling digital modernization.

Learning Outcomes

Participants will be able to:

- Understand IoT & AI as core enablers of digital transformation
 - Lead digital modernization initiatives using emerging technologies
 - Apply digital strategy frameworks to real organizational challenges
 - Map IoT & AI use cases to business goals
 - Strengthen governance, security, privacy, and compliance
 - Build digital roadmaps integrating IoT, AI, cloud, and data
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AGENDA

DAY 1 - Digital Transformation Foundations

Program Opening & Digital Readiness Self-Assessment

- Exercise: Digital Readiness Reflection Worksheet

Understanding Digital Transformation

- Digital maturity
- Transformation drivers
- Organizational impact
- Exercise: Case Deconstruction Worksheet

Digital Leadership Competencies

- Strategic thinking
 - Innovation mindset
 - Decision-making in digital environments
 - Exercise: Leadership Values Worksheet
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DAY 2 - IoT Concepts, Architecture & Applications

IoT Fundamentals

- Sensors, devices, connectivity
- Telemetry & real-time data
- Edge vs cloud processing
- Exercise: IoT Concept Mapping Worksheet

IoT Architecture & Enterprise Integration

- Device → gateway → cloud → analytics

- Data ingestion & monitoring
- Integration with enterprise systems
- Exercise: Architecture Fit Analysis Worksheet

IoT Use Cases

- Smart cities
 - Utilities & energy
 - Asset tracking
 - Predictive maintenance
 - Exercise: Use Case Identification Worksheet
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DAY 3 - Artificial Intelligence (AI), Machine Learning & AIoT

AI Fundamentals

- AI vs ML vs Deep Learning
- How AI systems learn
- Data pipeline: collection → preparation → modeling
- Exercise: AI Concept Worksheet

AI Use Cases

- Predictive analytics
- Automation & decision systems
- NLP, computer vision, generative AI
- Exercise: AI Use Case Mapping Worksheet

AI + IoT Integration (AIoT)

- Real-time decision systems
- Smart infrastructure
- AI-enabled digital twins

- Exercise: AIoT Integration Worksheet

AI Governance & Ethics

- Bias, fairness, transparency
 - ISO/IEC 42001
 - Responsible AI
 - Exercise: Governance Mapping Worksheet
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DAY 4 - Digital Transformation Implementation & Roadmapping

Digital Architecture & Operating Models

- Business, data, application, technology layers
- TOGAF alignment
- Exercise: Architecture Mapping Worksheet

Implementation Roadmap

- Assess → design → build → deploy → optimize
- KPIs, dashboards, performance indicators
- Exercise: Roadmap Structure Worksheet

Risk, Compliance & Security

- Cybersecurity controls
- Privacy (ISO 27701)
- Audit readiness
- Exercise: Compliance Impact Assessment Worksheet

Digital Roadmap Development

- Milestones
- Dependencies

- Governance checkpoints
- Exercise: Digital Roadmap Creation Worksheet

Final Transformation Action Planning

- Participants consolidate learning
 - Exercise: Action Plan Development Worksheet
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Methodology

- Reflection worksheets
- Innovation simulations
- Case deconstruction
- Group problem-solving challenges
- Facilitator-led coaching
- Digital roadmap development labs