

aractech
Global Learning for Operational Leaders

DIGITAL INNOVATION AND TRANSFORMATION | DIT-070

Internet of Things (IoT) Strategy and Implementation

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Course content

Why Attend

Billions of connected sensors and devices are generating real-time data about assets, buildings, vehicles, energy, people and the environment. The Internet of Things allows organisations to monitor, optimise and automate their operations as never before.

IoT creates value across industries, from predictive maintenance and smart buildings to fleet tracking, smart agriculture, healthcare monitoring and smart cities. Yet many IoT initiatives stall at the pilot stage due to unclear value, integration challenges and security risks.

Course Methodology

• This training course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This includes an interactive mixture of lecture-led learning, case studies, practical exercises and group discussions.

Course Objectives

• Understand core principles and best practices covered in Internet of Things (IoT) Strategy and Implementation.

• Apply practical techniques to day-to-day operational challenges.

• Build an implementation action plan suitable for your organization.

Target Audience

• Digital transformation and innovation managers

• Operations, facilities and asset managers

• IT and OT managers

• Engineers and technical specialists



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Course outline

Detailed course outline

Day-by-day outline for Internet of Things (IoT) Strategy and Implementation.

Day 1 - IoT Fundamentals and Value

- 09:00-09:30 | What IoT Is: Sensors, devices, connectivity, platforms and applications
- 09:30-10:00 | IoT Value Drivers: Visibility, efficiency, automation and new business models
- 10:00-10:30 | Industrial IoT and Industry 4.0: Connected operations and smart manufacturing
- 10:30-11:00 | IoT Across Sectors: Energy, utilities, logistics, healthcare, real estate and government
- 11:00-11:30 | Coffee break
- 11:30-12:00 | IoT Maturity: From monitoring to prediction and autonomy
- 12:00-13:00 | Case Studies: Successful IoT deployments and lessons learned
- 13:00-14:00 | Exercise: Identify IoT opportunities in participants' organisations

Day 2 - IoT Strategy and Use Case Selection

- 09:00-09:54 | Developing an IoT Strategy: Vision, objectives and alignment with business strategy
- 09:54-10:21 | Use Case Identification: Pain points, data gaps and value opportunities
- 10:21-10:48 | Prioritisation: Value, feasibility, cost and risk scoring
- 10:48-11:00 | Business Case Development: Costs, benefits and ROI for IoT
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Business Case Development: Costs, benefits and ROI for IoT (continued)
- 11:45-12:12 | Ecosystem and Partners: Device makers, telecom operators, platforms and integrators
- 12:12-13:06 | Build, Buy or Partner Decisions: Choosing the right delivery model
- 13:06-14:00 | Workshop: Build a prioritised IoT use case portfolio



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Day 3 - IoT Architecture and Technologies

- 09:00-09:54 | IoT Reference Architecture: Device, edge, network, platform and application layers
- 09:54-10:21 | Sensors and Devices: Types, power, durability and selection
- 10:21-10:48 | Connectivity Options: Wi-Fi, cellular, 5G, LoRaWAN, NB-IoT and satellite
- 10:48-11:00 | Edge Computing: Processing data close to the source
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Edge Computing: Processing data close to the source (continued)
- 11:45-12:39 | IoT Platforms: Device management, data ingestion and application enablement
- 12:39-13:06 | Integration with Enterprise Systems: ERP, maintenance, SCADA and BMS
- 13:06-14:00 | Demonstration: Building a simple IoT monitoring solution

Day 4 - Data, Analytics and Security

- 09:00-09:30 | IoT Data Management: Streaming data, storage and data quality
- 09:30-10:00 | Analytics for IoT: Dashboards, alerts and predictive models
- 10:00-10:30 | Digital Twins: Virtual representations of connected assets
- 10:30-11:00 | IoT Cybersecurity Threats: Device vulnerabilities, network attacks and data theft
- 11:00-11:30 | Coffee break
- 11:30-12:30 | Security by Design: Authentication, encryption, updates and monitoring
- 12:30-13:00 | Privacy and Regulation: Data protection and regulatory compliance
- 13:00-14:00 | Case Study: Responding to an IoT security incident



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Day 5 - Implementation and Scaling

- 09:00-10:07 | Pilot Design: Scope, success criteria and measurement
- 10:07-10:41 | From Pilot to Production: Avoiding pilot purgatory
- 10:41-11:00 | Deployment and Operations: Installation, maintenance and device lifecycle
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Deployment and Operations: Installation, maintenance and device lifecycle (continued)
- 11:45-12:19 | Organisation and Skills: IT and OT collaboration and new roles
- 12:19-12:53 | Measuring IoT Value: KPIs and benefit tracking
- 12:53-13:27 | Scaling Across Sites and Business Units: Standards and reuse
- 13:27-14:00 | Capstone: Participants present an IoT implementation roadmap



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Seminar dates

Available seminar dates

Live dates and pricing for Internet of Things (IoT) Strategy and Implementation generated from the course details page.

Date	Location	Format	Fee
4 - 8 January 2027	Dublin	Classroom	**€3,360**
11 - 15 January 2027	Dubai	Classroom	**€2,745**
18 - 22 January 2027	Cape Town	Classroom	**€1,895**
25 - 29 January 2027	Paris	Classroom	**€2,210**
1 - 5 February 2027	Dubai	Classroom	**€2,745**
8 - 12 February 2027	Amsterdam	Classroom	**€2,415**
15 - 19 February 2027	Manchester	Classroom	**€3,360**
22 - 26 February 2027	London	Classroom	**€2,815**
1 - 5 March 2027	Cape Town	Classroom	**€1,895**
8 - 12 March 2027	Istanbul	Classroom	**€2,250**



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Date	Location	Format	Fee
15 - 19 March 2027	Dubai	Classroom	**€2,745**
22 - 26 March 2027	Barcelona	Classroom	**€2,175**
5 - 9 April 2027	Cape Town	Classroom	**€1,895**
12 - 16 April 2027	Frankfurt	Classroom	**€2,215**
19 - 23 April 2027	Dubai	Classroom	**€2,745**
26 - 30 April 2027	Kuala lumpur	Classroom	**€2,425**
3 - 7 May 2027	London	Classroom	**€2,815**
10 - 14 May 2027	Liverpool	Classroom	**€3,360**
17 - 21 May 2027	Brussels	Classroom	**€3,400**
24 - 28 May 2027	Cape Town	Classroom	**€1,895**



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7 - 11 June 2027	Paris	Classroom	**€2,210**
14 - 18 June 2027	Dubai	Classroom	**€2,745**
21 - 25 June 2027	Amsterdam	Classroom	**€2,415**
5 - 9 July 2027	Dubai	Classroom	**€2,745**
12 - 16 July 2027	Eindhoven	Classroom	**€3,400**
19 - 23 July 2027	Cape Town	Classroom	**€1,895**
26 - 30 July 2027	Rotterdam	Classroom	**€3,400**
2 - 6 August 2027	Dubai	Classroom	**€2,745**
9 - 13 August 2027	Barcelona	Classroom	**€2,175**
16 - 20 August 2027	Cape Town	Classroom	**€1,895**



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23 - 27 August 2027	Frankfurt	Classroom	**€2,215**
6 - 10 September 2027	Dubai	Classroom	**€2,745**
13 - 17 September 2027	Kuala lumpur	Classroom	**€2,425**
20 - 24 September 2027	London	Classroom	**€2,815**
4 - 8 October 2027	Istanbul	Classroom	**€2,250**
11 - 15 October 2027	Dubai	Classroom	**€2,745**
18 - 22 October 2027	Cape Town	Classroom	**€1,895**
25 - 29 October 2027	Dusseldorf	Classroom	**€3,400**
1 - 5 November 2027	Dubai	Classroom	**€2,745**
8 - 12 November 2027	Amsterdam	Classroom	**€2,415**



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22 - 26 November 2027	Berlin	Classroom	**€3,400**
6 - 10 December 2027	Cape Town	Classroom	**€1,895**
13 - 17 December 2027	Istanbul	Classroom	**€2,250**
20 - 24 December 2027	Dubai	Classroom	**€2,745**
27 - 31 December 2027	Barcelona	Classroom	**€2,175**
4 - 8 January 2027	Online / Live	Online / Live	**€1,515**
11 - 15 January 2027	Online / Live	Online / Live	**€1,515**
18 - 22 January 2027	Online / Live	Online / Live	**€1,515**
25 - 29 January 2027	Online / Live	Online / Live	**€1,515**



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1 - 5 February 2027	Online / Live	Online / Live	**€1,515**
8 - 12 February 2027	Online / Live	Online / Live	**€1,515**
15 - 19 February 2027	Online / Live	Online / Live	**€1,515**
22 - 26 February 2027	Online / Live	Online / Live	**€1,515**
1 - 5 March 2027	Online / Live	Online / Live	**€1,515**
8 - 12 March 2027	Online / Live	Online / Live	**€1,515**
15 - 19 March 2027	Online / Live	Online / Live	**€1,515**
22 - 26 March 2027	Online / Live	Online / Live	**€1,515**
5 - 9 April 2027	Online / Live	Online / Live	**€1,515**
12 - 16 April 2027	Online / Live	Online / Live	**€1,515**



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26 - 30 April 2027	Online / Live	Online / Live	**€1,515**
3 - 7 May 2027	Online / Live	Online / Live	**€1,515**
10 - 14 May 2027	Online / Live	Online / Live	**€1,515**
17 - 21 May 2027	Online / Live	Online / Live	**€1,515**
24 - 28 May 2027	Online / Live	Online / Live	**€1,515**
7 - 11 June 2027	Online / Live	Online / Live	**€1,515**
14 - 18 June 2027	Online / Live	Online / Live	**€1,515**
21 - 25 June 2027	Online / Live	Online / Live	**€1,515**
5 - 9 July 2027	Online / Live	Online / Live	**€1,515**



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19 - 23 July 2027	Online / Live	Online / Live	**€1,515**
26 - 30 July 2027	Online / Live	Online / Live	**€1,515**
2 - 6 August 2027	Online / Live	Online / Live	**€1,515**
9 - 13 August 2027	Online / Live	Online / Live	**€1,515**
16 - 20 August 2027	Online / Live	Online / Live	**€1,515**
23 - 27 August 2027	Online / Live	Online / Live	**€1,515**
6 - 10 September 2027	Online / Live	Online / Live	**€1,515**
13 - 17 September 2027	Online / Live	Online / Live	**€1,515**
20 - 24 September 2027	Online / Live	Online / Live	**€1,515**



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25 - 29 October 2027	Online / Live	Online / Live	**€1,515**
1 - 5 November 2027	Online / Live	Online / Live	**€1,515**
8 - 12 November 2027	Online / Live	Online / Live	**€1,515**
15 - 19 November 2027	Online / Live	Online / Live	**€1,515**
22 - 26 November 2027	Online / Live	Online / Live	**€1,515**
6 - 10 December 2027	Online / Live	Online / Live	**€1,515**
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