

DIGITAL INNOVATION AND TRANSFORMATION | DIT-036

Digital Transformation in Manufacturing (Industry 4.0)

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Course content

Why Attend

Industry 4.0 technologies such as industrial IoT, automation, digital twins, analytics and additive manufacturing are transforming factories. Manufacturers that adopt them strategically gain productivity, quality and flexibility.

This Aractech course covers Industry 4.0 concepts, smart factory architecture, connected machines and data, manufacturing execution systems, predictive maintenance and quality, digital twins, workforce skills and building a digital manufacturing roadmap.

Course Methodology

- Technology overviews
- Factory case studies
- Use-case workshops
- Maturity assessment
- Roadmap development

Course Objectives

- Explain Industry 4.0 concepts and technologies
- Design smart factory data architectures
- Apply analytics for maintenance and quality
- Understand MES and digital twins
- Prepare the workforce for digital manufacturing
- Build an Industry 4.0 roadmap

Target Audience

- Manufacturing and plant managers

Course content

- Production and process engineers
- Digital transformation leaders
- Maintenance and quality managers

Course outline

Detailed course outline

Day-by-day outline for Digital Transformation in Manufacturing (Industry 4.0).

Day 1 - Industry 4.0

- 09:00-09:45 | Industrial revolutions
- 09:45-10:30 | Key technologies
- 10:30-11:00 | Value drivers
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Value drivers (continued)
- 11:45-12:30 | Maturity models
- 12:30-14:00 | Exercise: Maturity assessment

Day 2 - Connected Factory

- 09:00-09:45 | Industrial IoT
- 09:45-10:30 | OT and IT integration
- 10:30-11:00 | Edge computing
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Edge computing (continued)
- 11:45-12:30 | Data platforms
- 12:30-14:00 | Workshop: Architecture design

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Day 3 - Analytics and Automation

- 09:00-09:45 | Predictive maintenance
- 09:45-10:30 | Quality analytics
- 10:30-11:00 | Robotics and automation
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Robotics and automation (continued)
- 11:45-12:30 | MES
- 12:30-14:00 | Case study: Smart factory

Day 4 - Digital Twins and People

- 09:00-09:39 | Digital twins
- 09:39-10:56 | Simulation
- 10:56-11:00 | Workforce skills
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Workforce skills (continued)
- 12:05-12:43 | Change management
- 12:43-14:00 | Exercise: Skills plan

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Day 5 - Roadmap

- 09:00-09:54 | Use-case prioritisation
- 09:54-10:48 | Business cases
- 10:48-11:00 | Cybersecurity
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Cybersecurity (continued)
- 12:12-13:06 | Scaling
- 13:06-14:00 | Capstone: Industry 4.0 roadmap

Seminar dates

Available seminar dates

Live dates and pricing for Digital Transformation in Manufacturing (Industry 4.0) generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Rome	Classroom	€3,460
21 - 25 December 2026	Munich	Classroom	€3,225
18 - 22 January 2027	Frankfurt	Classroom	€1,875
15 - 19 February 2027	Rome	Classroom	€3,460
15 - 19 March 2027	Kuala lumpur	Classroom	€1,925
19 - 23 April 2027	Barcelona	Classroom	€2,815
17 - 21 May 2027	Geneva	Classroom	€4,315
21 - 25 June 2027	Geneva	Classroom	€4,315
19 - 23 July 2027	Rome	Classroom	€3,460
16 - 20 August 2027	Geneva	Classroom	€4,315

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18 - 22 October 2027	Rome	Classroom	€3,460
15 - 19 November 2027	Kuala lumpur	Classroom	€1,925
20 - 24 December 2027	Barcelona	Classroom	€2,815
2 - 6 November 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815

Seminar dates

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17 - 21 May 2027	Online / Live	Online / Live	€1,815
21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
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