

DIGITAL INNOVATION AND TRANSFORMATION | DIT-030

Generative AI for Engineers

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Course content

Why Attend

Engineers can use generative AI to accelerate documentation, analysis, coding, troubleshooting and knowledge management. Safe and effective use requires understanding where AI is reliable and where engineering judgement is essential.

This Aractech course covers generative AI applications in engineering: technical writing and specifications, code and scripts, data analysis, troubleshooting support, standards research, knowledge assistants and safety considerations. Participants complete hands-on engineering tasks with AI tools.

Course Methodology

- Hands-on labs
- Engineering scenarios
- Prompt workshops
- Case studies
- Discussions

Course Objectives

- Explain generative AI capabilities for engineering
- Use AI to produce technical documents and specifications
- Generate and review code and scripts
- Support analysis and troubleshooting with AI
- Build engineering knowledge assistants
- Manage safety, accuracy and IP risks

Target Audience

- Engineers in all disciplines

Course content

- Maintenance and reliability engineers
- Project engineers
- Technical specialists

Course outline

Detailed course outline

Day-by-day outline for Generative AI for Engineers.

Day 1 - Generative AI for Engineering

- 09:00-09:45 | AI basics
- 09:45-10:30 | Engineering use cases
- 10:30-11:00 | Limitations
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Limitations (continued)
- 11:45-12:30 | Tools
- 12:30-14:00 | Exercise: Task mapping

Day 2 - Technical Documentation

- 09:00-09:45 | Specifications
- 09:45-10:30 | Procedures
- 10:30-11:00 | Reports
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Reports (continued)
- 11:45-12:30 | Standards research
- 12:30-14:00 | Lab: Technical writing

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Day 3 - Code and Analysis

- 09:00-09:45 | Scripts and automation
- 09:45-10:30 | Data analysis
- 10:30-11:00 | Spreadsheet formulas
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Spreadsheet formulas (continued)
- 11:45-12:30 | Code review
- 12:30-14:00 | Lab: Engineering scripts

Day 4 - Troubleshooting and Knowledge

- 09:00-09:45 | Troubleshooting support
- 09:45-10:30 | Root cause brainstorming
- 10:30-11:00 | Knowledge assistants
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Knowledge assistants (continued)
- 11:45-12:30 | Lessons learned
- 12:30-14:00 | Case study: AI in maintenance

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Day 5 - Safe Use

- 09:00-09:54 | Verification
- 09:54-10:48 | Safety-critical decisions
- 10:48-11:00 | Intellectual property
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Intellectual property (continued)
- 12:12-13:06 | Policies
- 13:06-14:00 | Capstone: Engineering AI workflow

Seminar dates

Available seminar dates

Live dates and pricing for Generative AI for Engineers generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Barcelona	Classroom	€2,815
7 - 11 December 2026	Dubai	Classroom	€1,845
4 - 8 January 2027	Cape Town	Classroom	€1,625
1 - 5 February 2027	Amsterdam	Classroom	€2,830
1 - 5 March 2027	London	Classroom	€2,315
5 - 9 April 2027	Istanbul	Classroom	€1,978
3 - 7 May 2027	Munich	Classroom	€3,225
7 - 11 June 2027	Paris	Classroom	€3,825
5 - 9 July 2027	Frankfurt	Classroom	€1,875
2 - 6 August 2027	Kuala Lumpur	Classroom	€1,925

Seminar dates

Available seminar dates

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Date	Location	Format	Fee
6 - 10 September 2027	Rome	Classroom	€3,460
4 - 8 October 2027	Vienna	Classroom	€3,225
1 - 5 November 2027	Geneva	Classroom	€4,315
6 - 10 December 2027	Madrid	Classroom	€3,400
2 - 6 November 2026	Online / Live	Online / Live	€1,815
7 - 11 December 2026	Online / Live	Online / Live	€1,815
4 - 8 January 2027	Online / Live	Online / Live	€1,815
1 - 5 February 2027	Online / Live	Online / Live	€1,815
1 - 5 March 2027	Online / Live	Online / Live	€1,815
5 - 9 April 2027	Online / Live	Online / Live	€1,815

Seminar dates

Available seminar dates

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Date	Location	Format	Fee
3 - 7 May 2027	Online / Live	Online / Live	€1,815
7 - 11 June 2027	Online / Live	Online / Live	€1,815
5 - 9 July 2027	Online / Live	Online / Live	€1,815
2 - 6 August 2027	Online / Live	Online / Live	€1,815
6 - 10 September 2027	Online / Live	Online / Live	€1,815
4 - 8 October 2027	Online / Live	Online / Live	€1,815
1 - 5 November 2027	Online / Live	Online / Live	€1,815
6 - 10 December 2027	Online / Live	Online / Live	€1,815