



MAINTENANCE AND ENGINEERING | ME-030

Engineering Drawings and Technical Documentation

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Course content

Why Attend

Engineering drawings and documents communicate design intent, construction requirements and operating information. Misreading them leads to costly errors and safety issues.

This Aractech course covers drawing types, projections, dimensioning and tolerancing, symbols, P&IDs, electrical and instrumentation drawings, document control, revisions and as-built documentation. Participants practise reading and checking drawings.

Course Methodology

- Drawing reading exercises
- Demonstrations
- Checking workshops
- Case studies
- Group discussions

Course Objectives

- Read different types of engineering drawings
- Understand projections, dimensions and tolerances
- Interpret symbols, P&IDs and schematics
- Check drawings for errors and consistency
- Manage document control and revisions
- Maintain as-built documentation

Target Audience

- Engineers and technicians
- Maintenance staff

Course content

- Project and construction staff
- Document controllers

Course outline

Detailed course outline

Day-by-day outline for Engineering Drawings and Technical Documentation.

Day 1 - Drawing Fundamentals

- 09:00-09:45 | Drawing types
- 09:45-10:30 | Standards
- 10:30-11:00 | Title blocks
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Title blocks (continued)
- 11:45-12:30 | Scales
- 12:30-14:00 | Exercise: Drawing identification

Day 2 - Mechanical Drawings

- 09:00-09:45 | Projections
- 09:45-10:30 | Sections
- 10:30-11:00 | Dimensioning
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Dimensioning (continued)
- 11:45-12:30 | Tolerances
- 12:30-14:00 | Lab: Reading mechanical drawings

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Day 3 - Process and Electrical Drawings

- 09:00-09:45 | P&IDs
- 09:45-10:30 | Process flow diagrams
- 10:30-11:00 | Electrical schematics
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Electrical schematics (continued)
- 11:45-12:30 | Instrument loop diagrams
- 12:30-14:00 | Exercise: P&ID reading

Day 4 - Checking Drawings

- 09:00-09:45 | Common errors
- 09:45-10:30 | Consistency checks
- 10:30-11:00 | Interdisciplinary coordination
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Interdisciplinary coordination (continued)
- 11:45-12:30 | Mark-ups
- 12:30-14:00 | Workshop: Drawing check

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Day 5 - Document Control

- 09:00-09:54 | Revision control
- 09:54-10:48 | Transmittals
- 10:48-11:00 | As-built documentation
- 11:00-11:30 | Coffee break
- 11:30-12:12 | As-built documentation (continued)
- 12:12-13:06 | Digital systems
- 13:06-14:00 | Capstone: Documentation plan

Seminar dates

Available seminar dates

Live dates and pricing for Engineering Drawings and Technical Documentation generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Istanbul	Classroom	€1,978
14 - 18 December 2026	Rome	Classroom	€3,460
18 - 22 January 2027	Kuala lumpur	Classroom	€1,925
15 - 19 February 2027	Barcelona	Classroom	€2,815
15 - 19 March 2027	London	Classroom	€2,315
19 - 23 April 2027	Geneva	Classroom	€4,315
17 - 21 May 2027	Amsterdam	Classroom	€2,830
21 - 25 June 2027	Istanbul	Classroom	€1,978
19 - 23 July 2027	Rome	Classroom	€3,460
16 - 20 August 2027	Kuala lumpur	Classroom	€1,925

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Date	Location	Format	Fee
20 - 24 September 2027	Barcelona	Classroom	€2,815
18 - 22 October 2027	London	Classroom	€2,315
15 - 19 November 2027	Geneva	Classroom	€4,315
20 - 24 December 2027	Amsterdam	Classroom	€2,830
9 - 13 November 2026	Online / Live	Online / Live	€1,815
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15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815

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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
20 - 24 September 2027	Online / Live	Online / Live	€1,815
18 - 22 October 2027	Online / Live	Online / Live	€1,815
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