



MAINTENANCE AND ENGINEERING | ME-019

UPS and Battery Systems Maintenance

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Course content

Why Attend

Uninterruptible power supplies and battery systems protect critical loads in data centres, hospitals, control rooms and industrial plants. Failures often appear only when power is lost.

This Aractech course covers UPS topologies, components and operation, battery technologies, sizing, installation, monitoring, testing, maintenance and safety, along with troubleshooting and replacement planning. Participants develop UPS and battery maintenance plans.

Course Methodology

- Technical presentations
- Sizing exercises
- Test data interpretation
- Case studies
- Group discussions

Course Objectives

- Explain UPS topologies and operation
- Understand battery technologies and characteristics
- Size UPS and battery systems
- Monitor and test UPS and batteries
- Maintain systems safely
- Troubleshoot and plan replacements

Target Audience

- Electrical technicians
- Facilities engineers

Course content

- Data centre staff
- Maintenance supervisors

Course outline

Detailed course outline

Day-by-day outline for UPS and Battery Systems Maintenance.

Day 1 - UPS Fundamentals

- 09:00-09:45 | Need for UPS
- 09:45-10:30 | Topologies
- 10:30-11:00 | Components
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Components (continued)
- 11:45-12:30 | Configurations
- 12:30-14:00 | Exercise: System review

Day 2 - Batteries

- 09:00-09:54 | Battery types
- 09:54-10:48 | Characteristics
- 10:48-11:00 | Lithium-ion considerations
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Lithium-ion considerations (continued)
- 12:12-13:06 | Battery rooms
- 13:06-14:00 | Safety

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Day 3 - Sizing and Installation

- 09:00-09:45 | Load assessment
- 09:45-10:30 | Runtime
- 10:30-11:00 | Sizing
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Sizing (continued)
- 11:45-12:30 | Installation
- 12:30-14:00 | Lab: Sizing exercise

Day 4 - Monitoring and Testing

- 09:00-09:45 | Monitoring systems
- 09:45-10:30 | Battery testing
- 10:30-11:00 | UPS testing
- 11:00-11:30 | Coffee break
- 11:30-11:45 | UPS testing (continued)
- 11:45-12:30 | Thermal imaging
- 12:30-14:00 | Exercise: Test results analysis

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Day 5 - Maintenance and Troubleshooting

- 09:00-09:54 | Maintenance schedules
- 09:54-10:48 | Common faults
- 10:48-11:00 | Troubleshooting
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Troubleshooting (continued)
- 12:12-13:06 | Replacement planning
- 13:06-14:00 | Capstone: Maintenance plan

Seminar dates

Available seminar dates

Live dates and pricing for UPS and Battery Systems Maintenance generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Munich	Classroom	€3,225
21 - 25 December 2026	Amsterdam	Classroom	€2,830
18 - 22 January 2027	Barcelona	Classroom	€2,815
15 - 19 February 2027	Frankfurt	Classroom	€1,875
15 - 19 March 2027	Rome	Classroom	€3,460
19 - 23 April 2027	Kuala Lumpur	Classroom	€1,925
17 - 21 May 2027	Barcelona	Classroom	€2,815
21 - 25 June 2027	London	Classroom	€2,315
19 - 23 July 2027	Munich	Classroom	€3,225
16 - 20 August 2027	Amsterdam	Classroom	€2,830

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