



Machine Monitoring & Protection Systems

Instrumentation, Control & Automation

QGT-INS-121 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Machine Monitoring & Protection Systems is an introduction that builds a solid working knowledge in Machine Monitoring & Protection Systems. It covers the principles, the requirements of ISA, IEC 61511, IEC 61508 and IEC 62443, and the practical methods used on site, with case studies from operations in the Gulf, Africa and worldwide. Available online, in the classroom in 60 cities, or in-house.

What participants will be able to do

- Explain the principles, terminology and scope of Machine Monitoring & Protection Systems
- Apply the relevant requirements of ISA, IEC 61511, IEC 61508 and IEC 62443
- Use practical tools, checklists and calculations with confidence
- Recognise common problems, risks and root causes and choose the right corrective action
- Prepare an improvement plan for their own site or organisation

Who should attend

Designed for instrument and control engineers, technicians and control room staff, new joiners and anyone who needs a solid grounding in the subject.

Course outline (5 days)

Day 1: Principles and terminology

Scope, key definitions and how Machine Monitoring & Protection Systems fits into daily operations

Day 2: Codes, standards and requirements

What ISA, IEC 61511, IEC 61508 and IEC 62443 require, and how to read them

Day 3: Methods, tools and calculations

Step-by-step methods, checklists and worked examples

Day 4: Operation, inspection and common problems

Typical failures, warning signs and what to do about them

Day 5: Case studies, workshop and assessment

Group exercise on real cases and a final knowledge check

What the 10-day edition adds

Day 6: Applied project, part 1 – Apply the week-one methods to a case from your organisation

Day 7: Data and digital tools – Software, spreadsheets and digital tools used in practice

Day 8: Lessons from incidents and audits – What investigations and audit findings teach

Day 9: Applied project, part 2 – Complete, test and refine your solution

Day 10: Presentations and final assessment – Present to the group and complete the final assessment

Fees (USD per participant)

Duration	Live online	Classroom	In-house
5 days	\$3,000	\$5,500	On quote
10 days	\$5,500	\$9,900	On quote

Fees include course material and certificate of completion; classroom fees include refreshments and lunch. In-house training is priced per group.

Dates and cities 2027–2030

Dates	City	Format	Duration	Fee
18–22 Jan 2027	London	Classroom	5 days	\$5,500
5–16 Jul 2027	Marrakech	Classroom	10 days	\$9,900
11–15 Jul 2027	Manama	Classroom	5 days	\$5,500
19–30 Jul 2027	Rome	Classroom	10 days	\$9,900
11–15 Oct 2027	Online (live)	Online (live)	5 days	\$3,000
31 Jan – 4 Feb 2028	Munich	Classroom	5 days	\$5,500
21 Feb – 3 Mar 2028	Stockholm	Classroom	10 days	\$9,900
19–23 Mar 2028	Cairo	Classroom	5 days	\$5,500
25 Jun – 6 Jul 2028	Kuwait City	Classroom	10 days	\$9,900
3–7 Jul 2028	Online (live)	Online (live)	5 days	\$3,000
26 Feb – 2 Mar 2029	Bangkok	Classroom	5 days	\$5,500
9–20 Apr 2029	Munich	Classroom	10 days	\$9,900
7–11 May 2029	Edinburgh	Classroom	5 days	\$5,500
4–15 Jun 2029	Stockholm	Classroom	10 days	\$9,900
2–6 Jul 2029	Online (live)	Online (live)	5 days	\$3,000
18–22 Feb 2030	Cape Town	Classroom	5 days	\$5,500
1–12 Jul 2030	Stockholm	Classroom	10 days	\$9,900
29 Jul – 2 Aug 2030	Amsterdam	Classroom	5 days	\$5,500
14–25 Oct 2030	Tunis	Classroom	10 days	\$9,900
25–29 Nov 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/machine-monitoring-and-protection-systems/>

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