

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

SCADA Systems Operation

5 days | Classroom training | English

SMART HORIZON

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Course content

Why attend

SCADA systems monitor and control utilities, pipelines and industrial sites over wide areas. This course covers SCADA architecture, remote terminal units and PLCs, communication networks and protocols, HMI design, alarm management, historians, cybersecurity and operational practices for control room staff.

Effective SCADA operation improves reliability and response to incidents. You will learn how SCADA systems work and how to operate them well.

Professional Problems This Course Is Designed to Solve

- Difficulty translating subject knowledge into practical workplace decisions.
- Inconsistent approaches to the activities covered in the course outline.
- Lack of a structured plan for applying and reviewing new skills.

Course methodology

System demonstrations, alarm management exercises, cybersecurity case studies and operational scenarios.

Course objectives

By the end of this course, participants will be able to:
- Explain SCADA architecture and components
- Understand field devices and communication protocols
- Use HMIs effectively
- Apply alarm management principles
- Use historians and data for operations
- Recognise SCADA cybersecurity risks

Target audience

This course is suitable for:
- Control room operators
- SCADA engineers and technicians
- Utility and pipeline engineers
- Automation staff
- Operations supervisors



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Target competencies

Participants will develop competencies in:

- SCADA architecture
- Communication protocols
- HMI use
- Alarm management
- Cyber awareness

Course outline

Day 1: SCADA Architecture

09:00–10:08	Components
10:08–11:00	Applications
11:00–11:30	**Coffee break**
11:30–11:45	Applications (continued)
11:45–12:53	Topologies
12:53–14:00	Exercise

Day 2: Field Devices and Communication

09:00–10:08	RTUs and PLCs
10:08–11:00	Protocols
11:00–11:30	**Coffee break**
11:30–11:45	Protocols (continued)
11:45–12:53	Networks
12:53–14:00	Workshop

Day 3: HMI and Operations

09:00–10:08	HMI design principles
10:08–11:00	Operating practices
11:00–11:30	**Coffee break**



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11:30–11:45	Operating practices (continued)
11:45–12:53	Situational awareness
12:53–14:00	Exercise

Day 4: Alarms and Data

09:00–10:08	Alarm management
10:08–11:00	Historians
11:00–11:30	**Coffee break**
11:30–11:45	Historians (continued)
11:45–12:53	Reporting
12:53–14:00	Case study

Day 5: Cybersecurity

09:00–10:08	Threats to SCADA
10:08–11:00	Defences
11:00–11:30	**Coffee break**
11:30–11:45	Defences (continued)
11:45–12:53	Incident response
12:53–14:00	Action plan

The timings provided are estimates and may vary depending on the number of participants and the discussions taking place during the sessions. They are indicative only and do not constitute a binding commitment.



Course content

Dates, venues and fees

Current published course plans. Fees are per participant in EUR, excluding unconfirmed taxes.

Venue	Start date	End date	Fee (EUR)
Vienna Confirmed dates	9 Nov 2026	13 Nov 2026	**€5,880.–**
Online Confirmed dates	9 Nov 2026	13 Nov 2026	**€1,250.–**
Rome Confirmed dates	30 Nov 2026	4 Dec 2026	**€4,900.–**
Online Confirmed dates	30 Nov 2026	4 Dec 2026	**€1,250.–**
Paris Confirmed dates	4 Jan 2027	8 Jan 2027	**€5,720.–**
Online Confirmed dates	4 Jan 2027	8 Jan 2027	**€1,250.–**
Barcelona Confirmed dates	25 Jan 2027	29 Jan 2027	**€5,680.–**
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**€1,250.–**
Amsterdam Confirmed dates	15 Feb 2027	19 Feb 2027	**€5,080.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	15 Feb 2027	19 Feb 2027	**€1,250.–**
Rome Confirmed dates	1 Mar 2027	5 Mar 2027	**€4,900.–**
Online Confirmed dates	1 Mar 2027	5 Mar 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	22 Mar 2027	26 Mar 2027	**€2,900.–**
Online Confirmed dates	22 Mar 2027	26 Mar 2027	**€1,250.–**
Rome Confirmed dates	12 Apr 2027	16 Apr 2027	**€4,900.–**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**€1,250.–**
Frankfurt Confirmed dates	3 May 2027	7 May 2027	**€5,300.–**
Online Confirmed dates	3 May 2027	7 May 2027	**€1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Dubai Confirmed dates	24 May 2027	28 May 2027	**€6,300.-**
Online Confirmed dates	24 May 2027	28 May 2027	**€1,250.-**
London Confirmed dates	7 Jun 2027	11 Jun 2027	**€4,900.-**
Online Confirmed dates	7 Jun 2027	11 Jun 2027	**€1,250.-**
Cape Town Confirmed dates	28 Jun 2027	2 Jul 2027	**€3,780.-**
Online Confirmed dates	28 Jun 2027	2 Jul 2027	**€1,250.-**
London Confirmed dates	19 Jul 2027	23 Jul 2027	**€4,900.-**
Online Confirmed dates	19 Jul 2027	23 Jul 2027	**€1,250.-**
Cape Town Confirmed dates	9 Aug 2027	13 Aug 2027	**€3,780.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	9 Aug 2027	13 Aug 2027	**€1,250.-**
Dubai Confirmed dates	30 Aug 2027	3 Sept 2027	**€6,300.-**
Online Confirmed dates	30 Aug 2027	3 Sept 2027	**€1,250.-**
Barcelona Confirmed dates	13 Sept 2027	17 Sept 2027	**€5,680.-**
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**€1,250.-**
Istanbul Confirmed dates	4 Oct 2027	8 Oct 2027	**€5,300.-**
Online Confirmed dates	4 Oct 2027	8 Oct 2027	**€1,250.-**
Dubai Confirmed dates	25 Oct 2027	29 Oct 2027	**€6,300.-**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**€1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Cape Town Confirmed dates	15 Nov 2027	19 Nov 2027	**€3,780.-**
Online Confirmed dates	15 Nov 2027	19 Nov 2027	**€1,250.-**
Vienna Confirmed dates	6 Dec 2027	10 Dec 2027	**€5,880.-**
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**€1,250.-**

Plan your next step

Dates, availability, exact venue, taxes, inclusions and payment terms require written confirmation. This brochure is not a quotation, registration, booking confirmation or visa invitation. Participants receive a Smart Horizon certificate of attendance; programmes are not externally accredited and do not award a professional qualification or designation. Confirm arrangements before booking travel.

For group or in-house training, contact our learning team to discuss your objectives and delivery arrangements.

Contact Smart Horizon

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View the latest course details online