

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

SCADA Systems and Industrial Control Security

5 days | Classroom training | English

SMART HORIZON

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Amsterdam
The Netherlands

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Course content

Why attend

SCADA and industrial control systems monitor and control critical processes in utilities, oil and gas, manufacturing and transport. This course covers ICS architecture, SCADA components, communication protocols, alarms, data management and the growing importance of OT cybersecurity.

Industrial systems are increasingly connected and targeted. This course helps engineers understand SCADA and protect industrial environments.

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

The course uses architecture workshops, demonstrations, case studies of ICS incidents and risk assessments.

Course objectives

By the end of this course, participants will be able to:
• Explain SCADA and ICS architectures
• Understand components and communication protocols
• Manage alarms and operational data
• Identify OT cybersecurity threats
• Apply security controls for industrial systems
• Develop OT security risk assessments

Target audience

This course is suitable for:
• Control and automation engineers
• SCADA operators and technicians
• OT and IT security professionals
• Utility engineers
• Plant managers



Course content

Target competencies

Participants will develop competencies in:

- SCADA architecture
- Industrial protocols
- Alarm management
- OT security threats
- ICS security controls
- Risk assessment

Course outline

Day 1: SCADA and ICS

09:00–09:54	Control system types
09:54–10:48	SCADA architecture
10:48–11:00	RTUs and PLCs
11:00–11:30	**Coffee break**
11:30–12:12	RTUs and PLCs (continued)
12:12–13:06	Applications
13:06–14:00	Exercise: Architecture mapping

Day 2: Communications and Data

09:00–09:54	Industrial protocols
09:54–10:48	Networks
10:48–11:00	Historians
11:00–11:30	**Coffee break**
11:30–12:12	Historians (continued)
12:12–13:06	Alarm management
13:06–14:00	Demonstration: SCADA system



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Day 3: OT Security Threats

09:00–09:54	Threat landscape
09:54–10:48	Notable incidents
10:48–11:00	IT versus OT security
11:00–11:30	**Coffee break**
11:30–12:12	IT versus OT security (continued)
12:12–13:06	Vulnerabilities
13:06–14:00	Case study: ICS attack

Day 4: Security Controls

09:00–09:54	Network segmentation
09:54–10:48	Access control
10:48–11:00	Monitoring
11:00–11:30	**Coffee break**
11:30–12:12	Monitoring (continued)
12:12–13:06	Patch and change management
13:06–14:00	Workshop: Security design

Day 5: Risk and Governance

09:00–09:54	OT risk assessment
09:54–10:48	Standards
10:48–11:00	Incident response
11:00–11:30	**Coffee break**
11:30–12:12	Incident response (continued)
12:12–13:06	Roadmap
13:06–14:00	Capstone: OT security plan

The timings provided are estimates and may vary depending on the number of participants and the discussions taking place during the



Course content

sessions. They are indicative only and do not constitute a binding commitment.

Dates, venues and fees

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

Venue	Start date	End date	Fee (EUR)
Istanbul Confirmed dates	9 Nov 2026	13 Nov 2026	**€5,300.–**
Online Confirmed dates	9 Nov 2026	13 Nov 2026	**€1,250.–**
Amsterdam Confirmed dates	23 Nov 2026	27 Nov 2026	**€5,080.–**
Online Confirmed dates	23 Nov 2026	27 Nov 2026	**€1,250.–**
Singapore Confirmed dates	7 Dec 2026	11 Dec 2026	**€5,640.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**€1,250.–**
London Confirmed dates	14 Dec 2026	18 Dec 2026	**€4,900.–**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Dubai Confirmed dates	11 Jan 2027	15 Jan 2027	**€6,300.–**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,250.–**
Rome Confirmed dates	18 Jan 2027	22 Jan 2027	**€4,900.–**
Online Confirmed dates	18 Jan 2027	22 Jan 2027	**€1,250.–**
Frankfurt Confirmed dates	25 Jan 2027	29 Jan 2027	**€5,300.–**
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	8 Feb 2027	12 Feb 2027	**€2,900.–**
Online Confirmed dates	8 Feb 2027	12 Feb 2027	**€1,250.–**
Paris Confirmed dates	22 Feb 2027	26 Feb 2027	**€5,720.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	22 Feb 2027	26 Feb 2027	**€1,250.-**
Istanbul Confirmed dates	8 Mar 2027	12 Mar 2027	**€5,300.-**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**€1,250.-**
Cape Town Confirmed dates	15 Mar 2027	19 Mar 2027	**€3,780.-**
Online Confirmed dates	15 Mar 2027	19 Mar 2027	**€1,250.-**
Amsterdam Confirmed dates	22 Mar 2027	26 Mar 2027	**€5,080.-**
Online Confirmed dates	22 Mar 2027	26 Mar 2027	**€1,250.-**
Singapore Confirmed dates	12 Apr 2027	16 Apr 2027	**€5,640.-**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**€1,250.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
London Confirmed dates	26 Apr 2027	30 Apr 2027	**€4,900.-**
Online Confirmed dates	26 Apr 2027	30 Apr 2027	**€1,250.-**
Dubai Confirmed dates	10 May 2027	14 May 2027	**€6,300.-**
Online Confirmed dates	10 May 2027	14 May 2027	**€1,250.-**
Barcelona Confirmed dates	17 May 2027	21 May 2027	**€5,680.-**
Online Confirmed dates	17 May 2027	21 May 2027	**€1,250.-**
Frankfurt Confirmed dates	24 May 2027	28 May 2027	**€5,300.-**
Online Confirmed dates	24 May 2027	28 May 2027	**€1,250.-**
Kuala Lumpur Confirmed dates	14 Jun 2027	18 Jun 2027	**€2,900.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**€1,250.–**
Paris Confirmed dates	21 Jun 2027	25 Jun 2027	**€5,720.–**
Online Confirmed dates	21 Jun 2027	25 Jun 2027	**€1,250.–**
Istanbul Confirmed dates	12 Jul 2027	16 Jul 2027	**€5,300.–**
Online Confirmed dates	12 Jul 2027	16 Jul 2027	**€1,250.–**
Vienna Confirmed dates	19 Jul 2027	23 Jul 2027	**€5,880.–**
Online Confirmed dates	19 Jul 2027	23 Jul 2027	**€1,250.–**
Amsterdam Confirmed dates	26 Jul 2027	30 Jul 2027	**€5,080.–**
Online Confirmed dates	26 Jul 2027	30 Jul 2027	**€1,250.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Singapore Confirmed dates	9 Aug 2027	13 Aug 2027	**€5,640.-**
Online Confirmed dates	9 Aug 2027	13 Aug 2027	**€1,250.-**
London Confirmed dates	23 Aug 2027	27 Aug 2027	**€4,900.-**
Online Confirmed dates	23 Aug 2027	27 Aug 2027	**€1,250.-**
Rome Confirmed dates	6 Sept 2027	10 Sept 2027	**€4,900.-**
Online Confirmed dates	6 Sept 2027	10 Sept 2027	**€1,250.-**
Dubai Confirmed dates	13 Sept 2027	17 Sept 2027	**€6,300.-**
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**€1,250.-**
Frankfurt Confirmed dates	20 Sept 2027	24 Sept 2027	**€5,300.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	11 Oct 2027	15 Oct 2027	**€2,900.–**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**€1,250.–**
Paris Confirmed dates	25 Oct 2027	29 Oct 2027	**€5,720.–**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**€1,250.–**
Istanbul Confirmed dates	8 Nov 2027	12 Nov 2027	**€5,300.–**
Online Confirmed dates	8 Nov 2027	12 Nov 2027	**€1,250.–**
Cape Town Confirmed dates	15 Nov 2027	19 Nov 2027	**€3,780.–**
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Dates, venues and fees (continued)

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Singapore Confirmed dates	6 Dec 2027	10 Dec 2027	**€5,640.-**
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**€1,250.-**
London Confirmed dates	13 Dec 2027	17 Dec 2027	**€4,900.-**
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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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