

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Electrical Safety and Arc Flash Awareness

5 days | Classroom training | English

SMART HORIZON

info@smart-horizon.eu
Amsterdam
The Netherlands

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https://smart-horizon.eu



Course content

Why attend

Electrical hazards cause serious injuries and fatalities. This course covers electrical hazards, safe systems of work, isolation and lockout, risk assessment, arc flash hazards and incident energy, PPE selection, safe work practices and electrical safety programmes.

Electrical work requires rigorous safety practices. This course raises awareness and gives practical tools to manage electrical risks.

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 case studies, risk assessment exercises, procedure reviews and demonstrations. It is an awareness course and does not qualify participants for electrical work.

Course objectives

By the end of this course, participants will be able to:
• Recognise electrical hazards and their effects
• Apply safe systems of work and isolation procedures
• Conduct electrical risk assessments
• Understand arc flash hazards and labelling
• Select appropriate PPE
• Develop an electrical safety programme

Target audience

This course is suitable for:
• Electrical engineers and technicians
• Maintenance supervisors
• Health and safety professionals
• Facilities managers
• Contractors' supervisors



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Target competencies

Participants will develop competencies in:

- Electrical hazard awareness
- Safe isolation
- Risk assessment
- Arc flash awareness
- PPE selection
- Safety programmes

Course outline

Day 1: Electrical Hazards

09:00–09:54	Shock and burns
09:54–10:48	Arc flash and blast
10:48–11:00	Statistics and incidents
11:00–11:30	**Coffee break**
11:30–12:12	Statistics and incidents (continued)
12:12–13:06	Legal duties
13:06–14:00	Exercise: Incident review

Day 2: Safe Systems of Work

09:00–09:54	Permits to work
09:54–10:48	Isolation and lockout
10:48–11:00	Testing for dead
11:00–11:30	**Coffee break**
11:30–12:12	Testing for dead (continued)
12:12–13:06	Live work restrictions
13:06–14:00	Workshop: Procedure review



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Day 3: Risk Assessment

09:00–09:54	Hazard identification
09:54–10:48	Risk controls
10:48–11:00	Approach boundaries
11:00–11:30	**Coffee break**
11:30–12:12	Approach boundaries (continued)
12:12–13:06	Competence
13:06–14:00	Exercise: Risk assessment

Day 4: Arc Flash

09:00–09:54	Arc flash causes
09:54–10:48	Incident energy
10:48–11:00	Labels
11:00–11:30	**Coffee break**
11:30–12:12	Labels (continued)
12:12–13:06	PPE categories
13:06–14:00	Case study: Arc flash incident

Day 5: Safety Programme

09:00–09:54	Programme elements
09:54–10:48	Training
10:48–11:00	Audits
11:00–11:30	**Coffee break**
11:30–12:12	Audits (continued)
12:12–13:06	Contractor management
13:06–14:00	Capstone: Electrical safety plan

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



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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)
Kuala Lumpur Confirmed dates	9 Nov 2026	13 Nov 2026	**€2,900.–**
Online Confirmed dates	9 Nov 2026	13 Nov 2026	**€1,250.–**
Cape Town Confirmed dates	16 Nov 2026	20 Nov 2026	**€3,780.–**
Online Confirmed dates	16 Nov 2026	20 Nov 2026	**€1,250.–**
Paris Confirmed dates	23 Nov 2026	27 Nov 2026	**€5,720.–**
Online Confirmed dates	23 Nov 2026	27 Nov 2026	**€1,250.–**
Istanbul Confirmed dates	7 Dec 2026	11 Dec 2026	**€5,300.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**€1,250.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Amsterdam Confirmed dates	14 Dec 2026	18 Dec 2026	**€5,080.-**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,250.-**
Singapore Confirmed dates	11 Jan 2027	15 Jan 2027	**€5,640.-**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,250.-**
London Confirmed dates	25 Jan 2027	29 Jan 2027	**€4,900.-**
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**€1,250.-**
Dubai Confirmed dates	8 Feb 2027	12 Feb 2027	**€6,300.-**
Online Confirmed dates	8 Feb 2027	12 Feb 2027	**€1,250.-**
Barcelona Confirmed dates	15 Feb 2027	19 Feb 2027	**€5,680.-**



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.–**
Frankfurt Confirmed dates	22 Feb 2027	26 Feb 2027	**€5,300.–**
Online Confirmed dates	22 Feb 2027	26 Feb 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	8 Mar 2027	12 Mar 2027	**€2,900.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**€1,250.–**
Paris Confirmed dates	22 Mar 2027	26 Mar 2027	**€5,720.–**
Online Confirmed dates	22 Mar 2027	26 Mar 2027	**€1,250.–**
Cape Town Confirmed dates	5 Apr 2027	9 Apr 2027	**€3,780.–**
Online Confirmed dates	5 Apr 2027	9 Apr 2027	**€1,250.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Istanbul Confirmed dates	12 Apr 2027	16 Apr 2027	**€5,300.-**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**€1,250.-**
Amsterdam Confirmed dates	26 Apr 2027	30 Apr 2027	**€5,080.-**
Online Confirmed dates	26 Apr 2027	30 Apr 2027	**€1,250.-**
Singapore Confirmed dates	10 May 2027	14 May 2027	**€5,640.-**
Online Confirmed dates	10 May 2027	14 May 2027	**€1,250.-**
London Confirmed dates	24 May 2027	28 May 2027	**€4,900.-**
Online Confirmed dates	24 May 2027	28 May 2027	**€1,250.-**
Vienna Confirmed dates	7 Jun 2027	11 Jun 2027	**€5,880.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	7 Jun 2027	11 Jun 2027	**€1,250.–**
Dubai Confirmed dates	14 Jun 2027	18 Jun 2027	**€6,300.–**
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**€1,250.–**
Frankfurt Confirmed dates	21 Jun 2027	25 Jun 2027	**€5,300.–**
Online Confirmed dates	21 Jun 2027	25 Jun 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	12 Jul 2027	16 Jul 2027	**€2,900.–**
Online Confirmed dates	12 Jul 2027	16 Jul 2027	**€1,250.–**
Paris Confirmed dates	26 Jul 2027	30 Jul 2027	**€5,720.–**
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)
Istanbul Confirmed dates	9 Aug 2027	13 Aug 2027	**€5,300.-**
Online Confirmed dates	9 Aug 2027	13 Aug 2027	**€1,250.-**
Rome Confirmed dates	16 Aug 2027	20 Aug 2027	**€4,900.-**
Online Confirmed dates	16 Aug 2027	20 Aug 2027	**€1,250.-**
Amsterdam Confirmed dates	23 Aug 2027	27 Aug 2027	**€5,080.-**
Online Confirmed dates	23 Aug 2027	27 Aug 2027	**€1,250.-**
Singapore Confirmed dates	13 Sept 2027	17 Sept 2027	**€5,640.-**
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**€1,250.-**
London Confirmed dates	20 Sept 2027	24 Sept 2027	**€4,900.-**



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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.–**
Rome Confirmed dates	4 Oct 2027	8 Oct 2027	**€4,900.–**
Online Confirmed dates	4 Oct 2027	8 Oct 2027	**€1,250.–**
Dubai Confirmed dates	11 Oct 2027	15 Oct 2027	**€6,300.–**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**€1,250.–**
Frankfurt Confirmed dates	25 Oct 2027	29 Oct 2027	**€5,300.–**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	8 Nov 2027	12 Nov 2027	**€2,900.–**
Online Confirmed dates	8 Nov 2027	12 Nov 2027	**€1,250.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Paris Confirmed dates	22 Nov 2027	26 Nov 2027	**€5,720.–**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**€1,250.–**
Istanbul Confirmed dates	6 Dec 2027	10 Dec 2027	**€5,300.–**
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**€1,250.–**
Amsterdam Confirmed dates	13 Dec 2027	17 Dec 2027	**€5,080.–**
Online Confirmed dates	13 Dec 2027	17 Dec 2027	**€1,250.–**



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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

info@smart-horizon.eu
Amsterdam
The Netherlands

View the latest course details online