

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Electrical Maintenance and Safety

5 days | Classroom training | English

SMART HORIZON

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London W2 6BD, United Kingdom

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Course content

Why attend

Electrical systems demand rigorous maintenance and strict safety to prevent shocks, arc flash and fires. This course covers electrical maintenance and safety: electrical hazards, safe isolation and lockout, testing equipment, maintenance of switchgear, cables, motors and panels, earthing, arc flash awareness and electrical safety programmes.

Electrical accidents are often fatal. You will learn maintenance practices and safety rules that protect people and equipment.

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

Safety procedure exercises, equipment demonstrations, case studies of incidents and checklist development.

Course objectives

By the end of this course, participants will be able to:
• Recognise electrical hazards including arc flash
• Apply safe isolation and lockout procedures
• Use electrical test equipment correctly
• Maintain switchgear, cables, motors and panels
• Verify earthing and protection
• Implement electrical safety programmes

Target audience

This course is suitable for:
• Electrical technicians and engineers
• Maintenance supervisors
• Facility engineers
• Safety officers
• Contractors working on electrical systems



Course content

Target competencies

Participants will develop competencies in:

- Hazard recognition
- Safe isolation
- Testing
- Preventive maintenance
- Safety management

Course outline

Day 1: Electrical Hazards

09:00–10:08	Shock and arc flash
10:08–11:00	Incident case studies
11:00–11:30	**Coffee break**
11:30–11:45	Incident case studies (continued)
11:45–12:53	Regulations
12:53–14:00	Exercise

Day 2: Safe Work

09:00–10:08	Isolation and lockout
10:08–11:00	Permits
11:00–11:30	**Coffee break**
11:30–11:45	Permits (continued)
11:45–12:53	PPE
12:53–14:00	Practice

Day 3: Testing

09:00–10:08	Test instruments
10:08–11:00	Insulation resistance
11:00–11:30	**Coffee break**



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11:30–11:45	Insulation resistance (continued)
11:45–12:53	Thermography
12:53–14:00	Demonstration

Day 4: Equipment Maintenance

09:00–10:08	Switchgear
10:08–11:00	Cables and terminations
11:00–11:30	**Coffee break**
11:30–11:45	Cables and terminations (continued)
11:45–12:53	Motors and panels
12:53–14:00	Exercise

Day 5: Safety Programmes

09:00–10:08	Earthing and protection
10:08–11:00	Safety programme elements
11:00–11:30	**Coffee break**
11:30–11:45	Safety programme elements (continued)
11:45–12:53	Audits
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 GBP, excluding unconfirmed taxes.

Venue	Start date	End date	Fee (GBP)
Amsterdam Confirmed dates	9 Nov 2026	13 Nov 2026	**£5,080.–**
Online Confirmed dates	9 Nov 2026	13 Nov 2026	**£1,250.–**
Kuala Lumpur Confirmed dates	30 Nov 2026	4 Dec 2026	**£2,900.–**
Online Confirmed dates	30 Nov 2026	4 Dec 2026	**£1,250.–**
Dubai Confirmed dates	4 Jan 2027	8 Jan 2027	**£6,300.–**
Online Confirmed dates	4 Jan 2027	8 Jan 2027	**£1,250.–**
Cape Town Confirmed dates	25 Jan 2027	29 Jan 2027	**£3,780.–**
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**£1,250.–**
Vienna Confirmed dates	8 Feb 2027	12 Feb 2027	**£5,880.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	8 Feb 2027	12 Feb 2027	**£1,250.–**
London Confirmed dates	1 Mar 2027	5 Mar 2027	**£4,900.–**
Online Confirmed dates	1 Mar 2027	5 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.–**
Istanbul Confirmed dates	12 Apr 2027	16 Apr 2027	**£5,300.–**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**£1,250.–**
Cape Town Confirmed dates	3 May 2027	7 May 2027	**£3,780.–**
Online Confirmed dates	3 May 2027	7 May 2027	**£1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Dubai Confirmed dates	17 May 2027	21 May 2027	**£6,300.-**
Online Confirmed dates	17 May 2027	21 May 2027	**£1,250.-**
Rome Confirmed dates	7 Jun 2027	11 Jun 2027	**£4,900.-**
Online Confirmed dates	7 Jun 2027	11 Jun 2027	**£1,250.-**
Dubai Confirmed dates	28 Jun 2027	2 Jul 2027	**£6,300.-**
Online Confirmed dates	28 Jun 2027	2 Jul 2027	**£1,250.-**
Barcelona Confirmed dates	19 Jul 2027	23 Jul 2027	**£5,680.-**
Online Confirmed dates	19 Jul 2027	23 Jul 2027	**£1,250.-**
Rome Confirmed dates	9 Aug 2027	13 Aug 2027	**£4,900.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	9 Aug 2027	13 Aug 2027	**£1,250.-**
Barcelona Confirmed dates	23 Aug 2027	27 Aug 2027	**£5,680.-**
Online Confirmed dates	23 Aug 2027	27 Aug 2027	**£1,250.-**
Frankfurt Confirmed dates	13 Sept 2027	17 Sept 2027	**£5,300.-**
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**£1,250.-**
London Confirmed dates	4 Oct 2027	8 Oct 2027	**£4,900.-**
Online Confirmed dates	4 Oct 2027	8 Oct 2027	**£1,250.-**
Vienna Confirmed dates	25 Oct 2027	29 Oct 2027	**£5,880.-**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**£1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Rome Confirmed dates	15 Nov 2027	19 Nov 2027	**£4,900.-**
Online Confirmed dates	15 Nov 2027	19 Nov 2027	**£1,250.-**
Cape Town Confirmed dates	29 Nov 2027	3 Dec 2027	**£3,780.-**
Online Confirmed dates	29 Nov 2027	3 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 UK 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