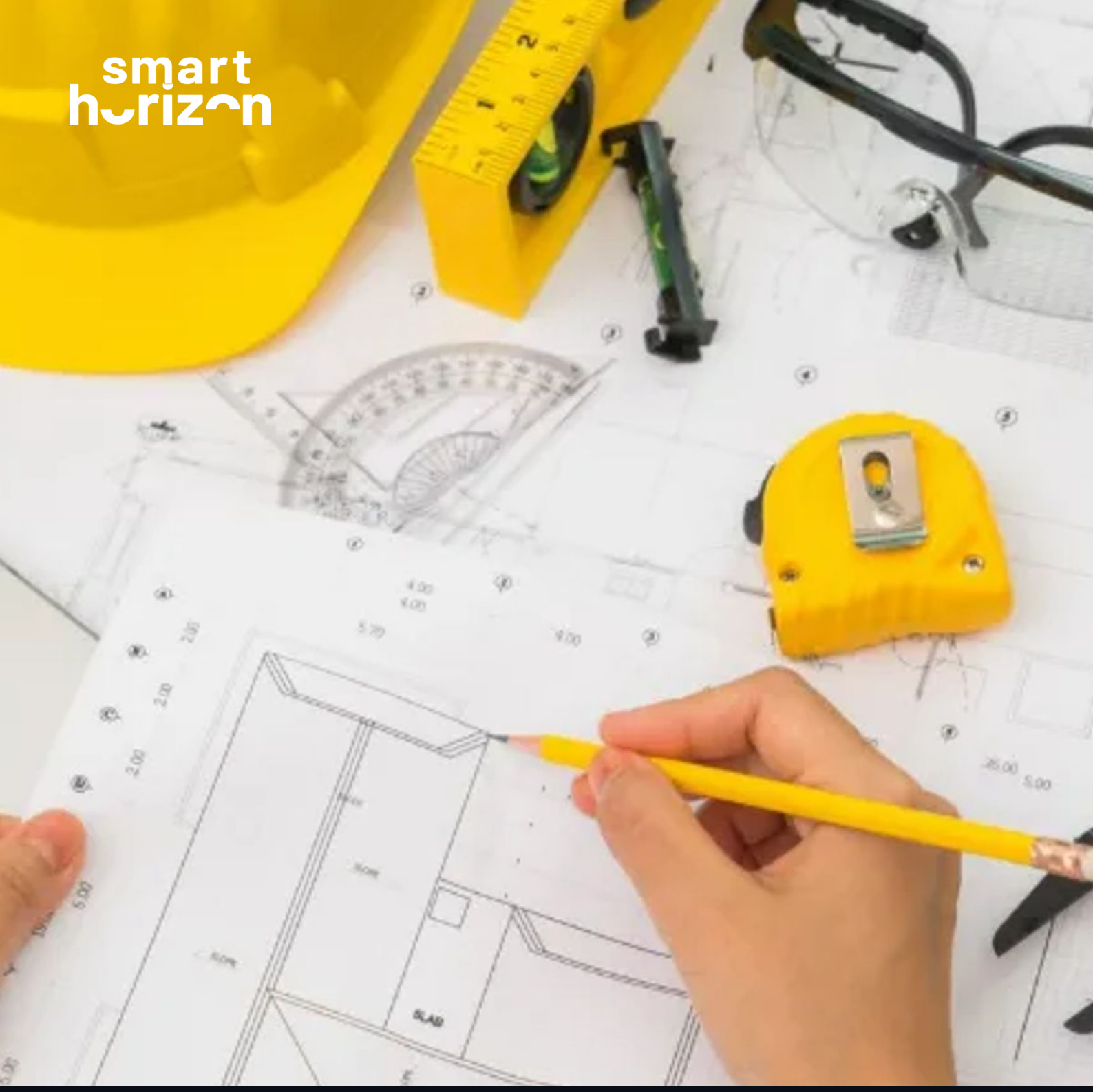


MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Building Services Engineering

5 days | Classroom training | English

SMART HORIZON

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Amsterdam
The Netherlands

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Course content

Why attend

Building services such as HVAC, electrical, plumbing, fire and lift systems make buildings safe and usable. This course gives facility and engineering staff an integrated view of building services: system design basics, operation, maintenance planning, building management systems, energy efficiency, compliance and commissioning.

Building services account for much of a building's life cycle cost. You will learn to manage them as an integrated system.

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 overviews, BMS demonstrations, maintenance planning exercises and case studies.

Course objectives

By the end of this course, participants will be able to:
• Explain major building services systems
• Understand system design basics
• Plan maintenance for building services
• Use building management systems
• Improve building energy efficiency
• Ensure compliance and proper commissioning

Target audience

This course is suitable for:
• Facility managers
• Building services engineers
• Maintenance supervisors
• Property managers
• Technical staff in buildings



Course content

Target competencies

Participants will develop competencies in:
- Systems understanding
- Maintenance planning
- BMS operation
- Energy efficiency
- Compliance

Course outline

Day 1: Building Services

09:00–10:08	Overview of systems
10:08–11:00	Design basics
11:00–11:30	**Coffee break**
11:30–11:45	Design basics (continued)
11:45–12:53	Interfaces
12:53–14:00	Exercise

Day 2: Mechanical Services

09:00–10:08	HVAC
10:08–11:00	Plumbing and drainage
11:00–11:30	**Coffee break**
11:30–11:45	Plumbing and drainage (continued)
11:45–12:53	Lifts
12:53–14:00	Workshop

Day 3: Electrical and Fire

09:00–10:08	Power and lighting
10:08–11:00	Fire systems
11:00–11:30	**Coffee break**



Course content

11:30–11:45	Fire systems (continued)
11:45–12:53	Emergency systems
12:53–14:00	Exercise

Day 4: BMS and Energy

09:00–10:08	Building management systems
10:08–11:00	Energy monitoring
11:00–11:30	**Coffee break**
11:30–11:45	Energy monitoring (continued)
11:45–12:53	Optimisation
12:53–14:00	Case study

Day 5: Maintenance and Compliance

09:00–10:08	Maintenance strategy
10:08–11:00	Statutory inspections
11:00–11:30	**Coffee break**
11:30–11:45	Statutory inspections (continued)
11:45–12:53	Commissioning
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	16 Nov 2026	20 Nov 2026	**€5,880.–**
Online Confirmed dates	16 Nov 2026	20 Nov 2026	**€1,250.–**
Barcelona Confirmed dates	7 Dec 2026	11 Dec 2026	**€5,680.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**€1,250.–**
Kuala Lumpur Confirmed dates	11 Jan 2027	15 Jan 2027	**€2,900.–**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,250.–**
Rome Confirmed dates	25 Jan 2027	29 Jan 2027	**€4,900.–**
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**€1,250.–**
Frankfurt Confirmed dates	15 Feb 2027	19 Feb 2027	**€5,300.–**



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	8 Mar 2027	12 Mar 2027	**€4,900.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**€1,250.–**
Cape Town Confirmed dates	29 Mar 2027	2 Apr 2027	**€3,780.–**
Online Confirmed dates	29 Mar 2027	2 Apr 2027	**€1,250.–**
Amsterdam Confirmed dates	19 Apr 2027	23 Apr 2027	**€5,080.–**
Online Confirmed dates	19 Apr 2027	23 Apr 2027	**€1,250.–**
Dubai Confirmed dates	3 May 2027	7 May 2027	**€6,300.–**
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)
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	14 Jun 2027	18 Jun 2027	**€5,880.-**
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**€1,250.-**
Istanbul Confirmed dates	5 Jul 2027	9 Jul 2027	**€5,300.-**
Online Confirmed dates	5 Jul 2027	9 Jul 2027	**€1,250.-**
Dubai Confirmed dates	26 Jul 2027	30 Jul 2027	**€6,300.-**
Online Confirmed dates	26 Jul 2027	30 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.-**
Cape Town Confirmed dates	20 Sept 2027	24 Sept 2027	**€3,780.-**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**€1,250.-**
Paris Confirmed dates	11 Oct 2027	15 Oct 2027	**€5,720.-**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**€1,250.-**
Rome Confirmed dates	1 Nov 2027	5 Nov 2027	**€4,900.-**
Online Confirmed dates	1 Nov 2027	5 Nov 2027	**€1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
London Confirmed dates	15 Nov 2027	19 Nov 2027	**€4,900.-**
Online Confirmed dates	15 Nov 2027	19 Nov 2027	**€1,250.-**
Barcelona Confirmed dates	6 Dec 2027	10 Dec 2027	**€5,680.-**
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