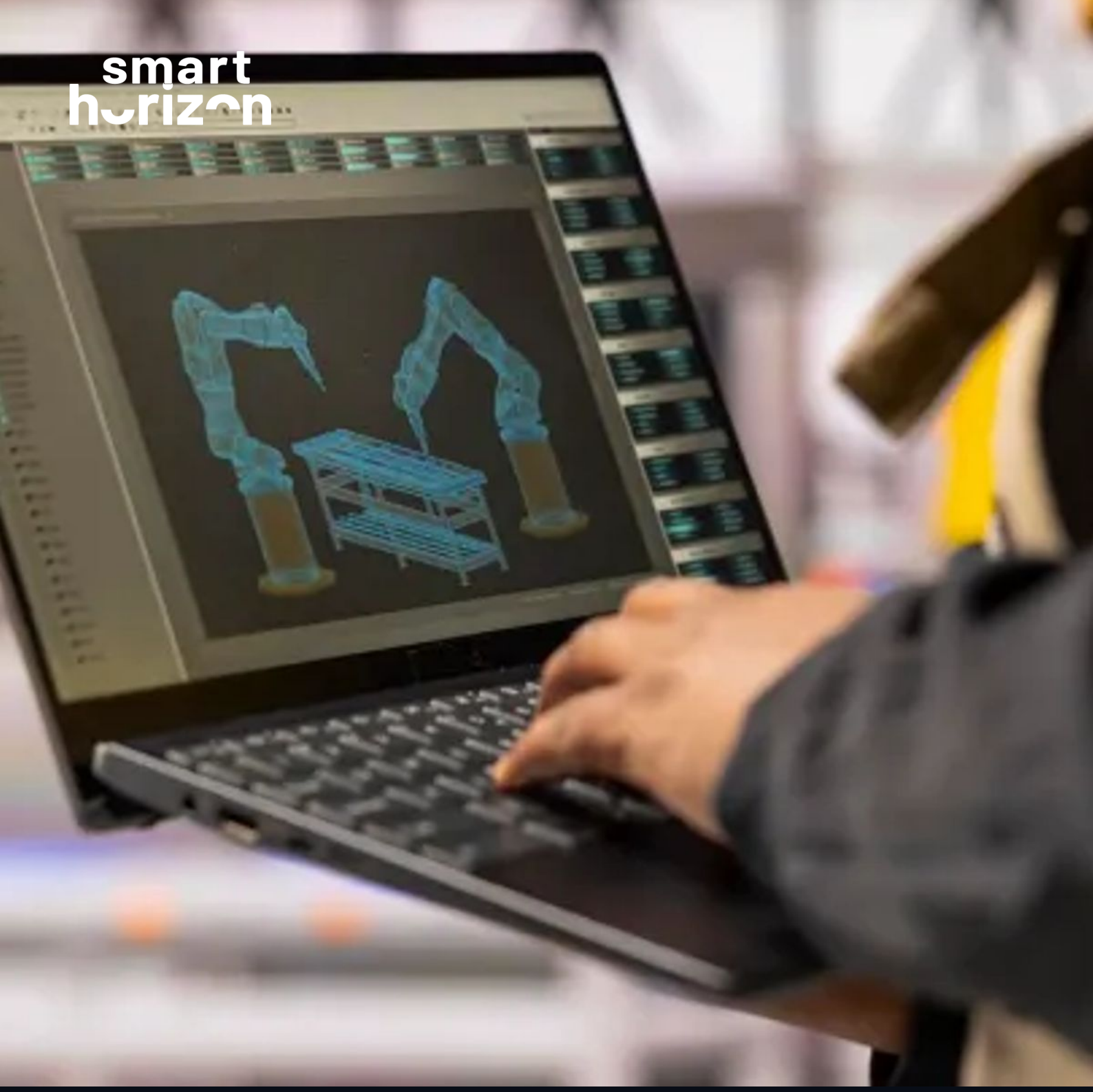


MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Infrared Thermography for Predictive Maintenance

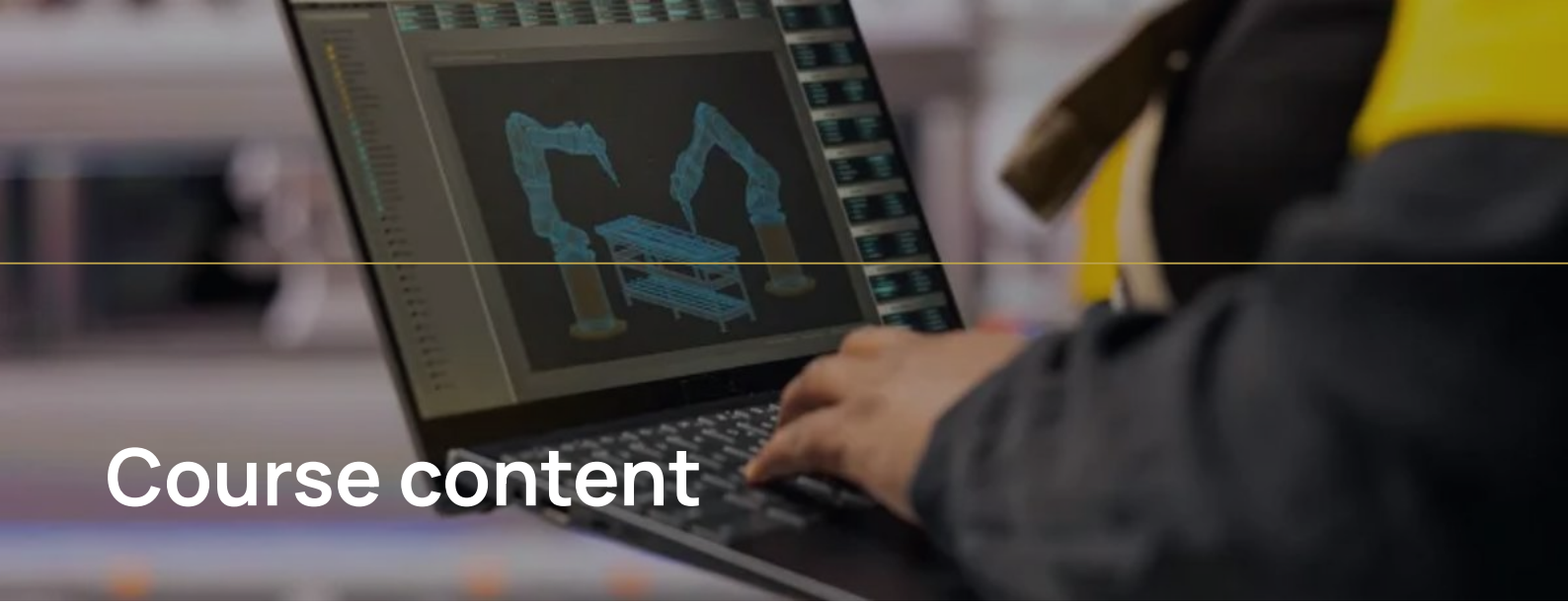
5 days | Classroom training | English

SMART HORIZON

info@smarthorizon.uk
2 Kingdom Street, Paddington
London W2 6BD, United Kingdom

Explore current programmes

https://smarthorizon.uk



Course content

Why attend

Infrared thermography detects abnormal temperatures in electrical, mechanical and building systems before they fail. This course covers thermography principles, camera operation, emissivity and reflected temperature, inspection of electrical panels, motors, bearings, steam systems and buildings, safety and reporting.

Thermography is a fast, non-contact way to find hidden problems. This course gives practical skills to plan and perform thermographic inspections.

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

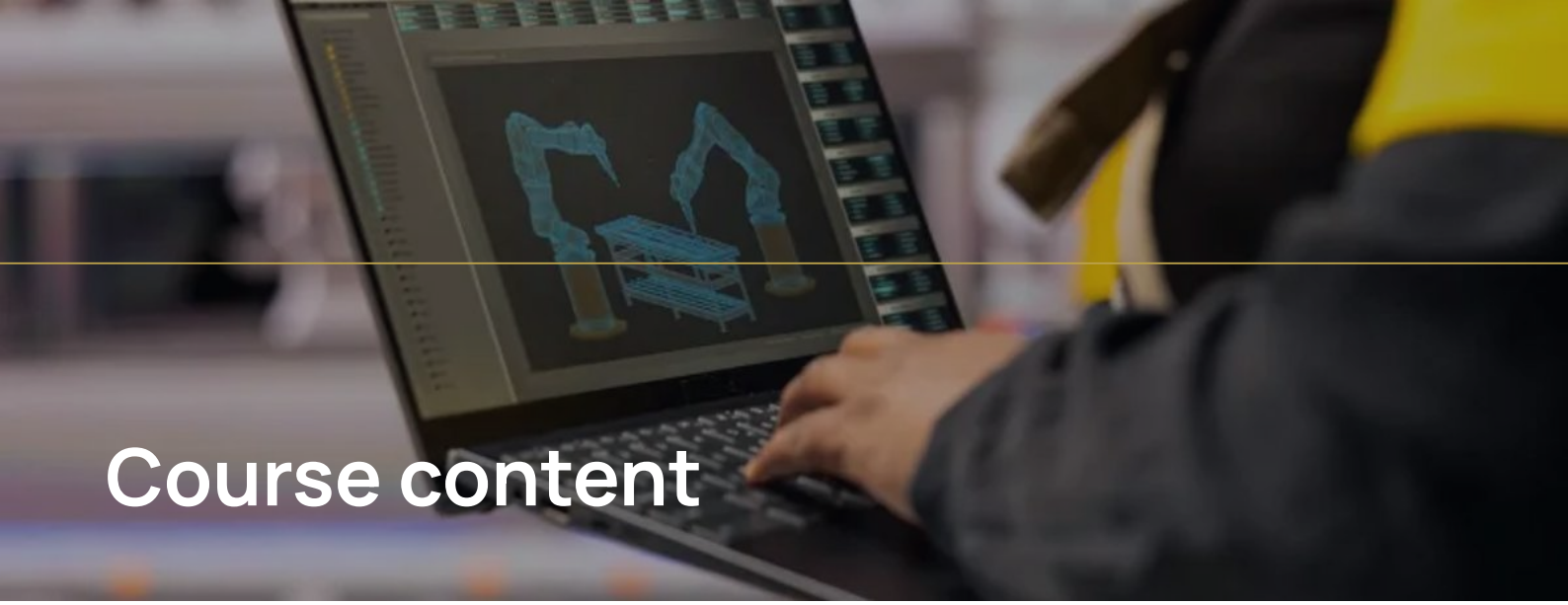
The course uses camera demonstrations, image interpretation exercises, case studies and report writing. It does not replace formal thermographer certification.

Course objectives

By the end of this course, participants will be able to:
• Explain infrared thermography principles
• Operate thermal cameras correctly
• Account for emissivity and reflected temperature
• Inspect electrical and mechanical equipment
• Interpret thermal images and assess severity
• Report findings and integrate into maintenance

Target audience

This course is suitable for:
• Maintenance technicians and engineers
• Electrical engineers
• Reliability engineers
• Facilities managers
• Condition monitoring specialists



Course content

Target competencies

Participants will develop competencies in:

- Thermography principles
- Camera operation
- Image interpretation
- Electrical inspection
- Severity assessment
- Inspection reporting

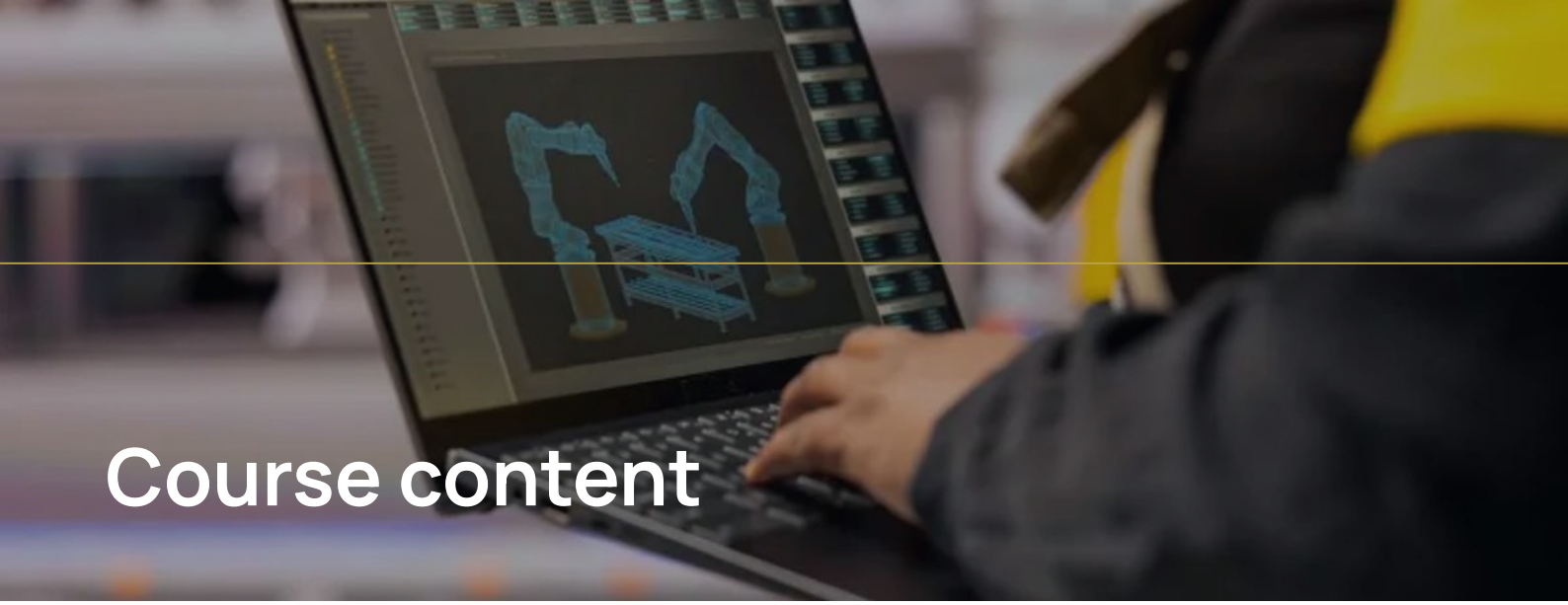
Course outline

Day 1: Thermography Principles

09:00–09:54	Heat transfer
09:54–10:48	Infrared radiation
10:48–11:00	Applications
11:00–11:30	**Coffee break**
11:30–12:12	Applications (continued)
12:12–13:06	Benefits and limitations
13:06–14:00	Exercise: Application review

Day 2: Cameras and Measurement

09:00–09:54	Camera features
09:54–10:48	Focus and range
10:48–11:00	Emissivity
11:00–11:30	**Coffee break**
11:30–12:12	Emissivity (continued)
12:12–13:06	Reflected temperature
13:06–14:00	Demonstration: Camera use



Course content

Day 3: Electrical Inspections

09:00–09:54	Panels and connections
09:54–10:48	Load considerations
10:48–11:00	Safety
11:00–11:30	**Coffee break**
11:30–12:12	Safety (continued)
12:12–13:06	Severity criteria
13:06–14:00	Lab: Image interpretation

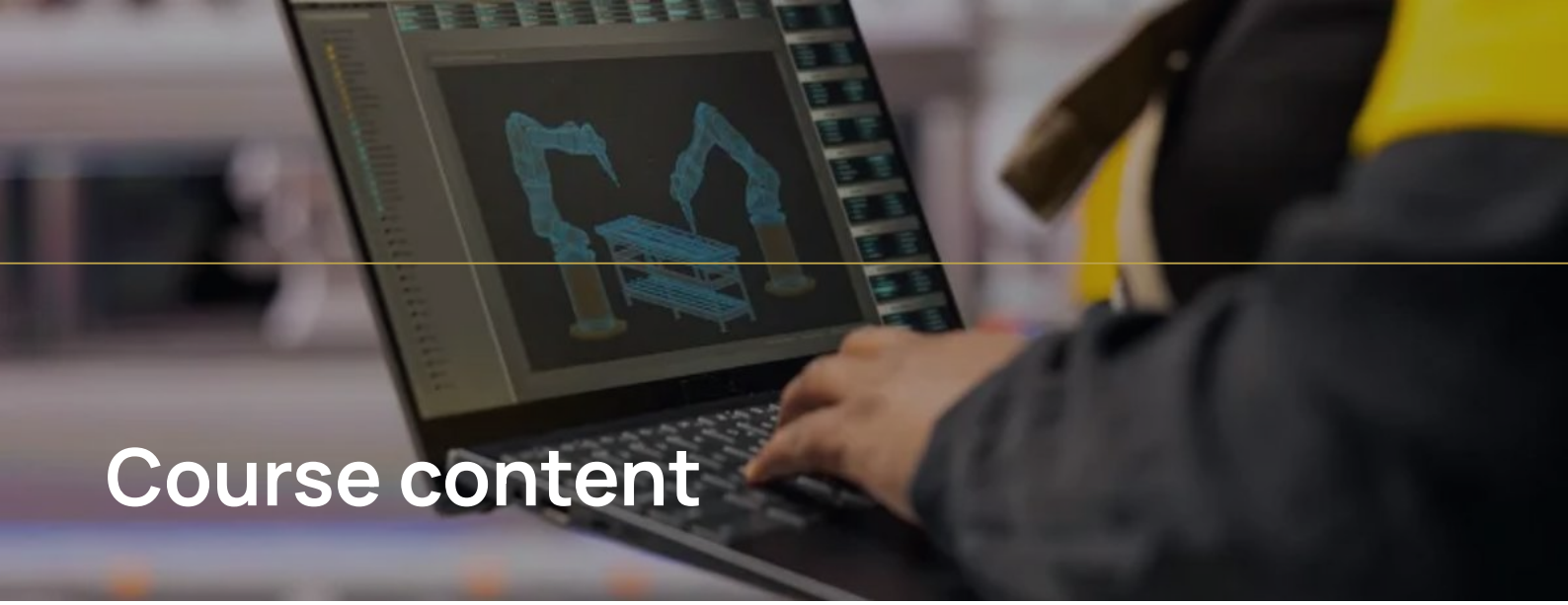
Day 4: Mechanical and Building

09:00–09:54	Motors and bearings
09:54–10:48	Steam and process systems
10:48–11:00	Building envelopes
11:00–11:30	**Coffee break**
11:30–12:12	Building envelopes (continued)
12:12–13:06	Refractory
13:06–14:00	Case study: Thermography findings

Day 5: Programme and Reporting

09:00–09:54	Inspection routes
09:54–10:48	Reports
10:48–11:00	CMMS integration
11:00–11:30	**Coffee break**
11:30–12:12	CMMS integration (continued)
12:12–13:06	Programme value
13:06–14:00	Capstone: Inspection report

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



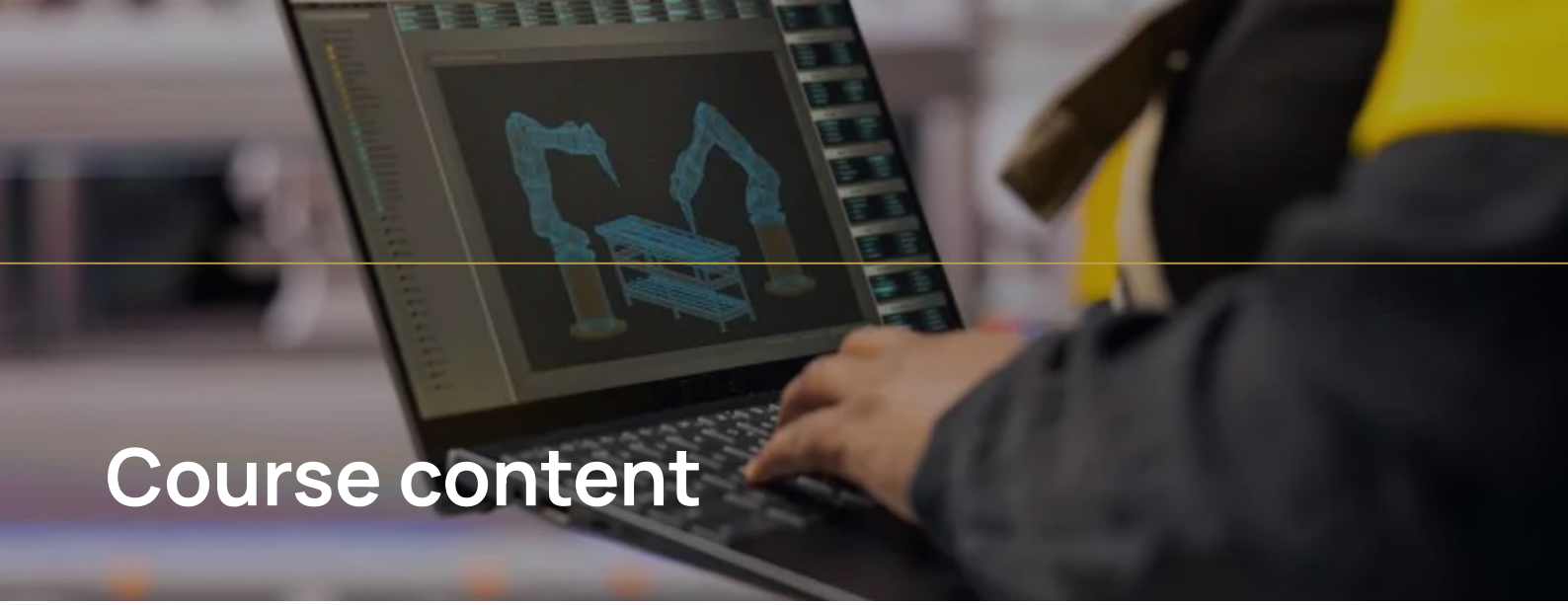
Course content

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 GBP, excluding unconfirmed taxes.

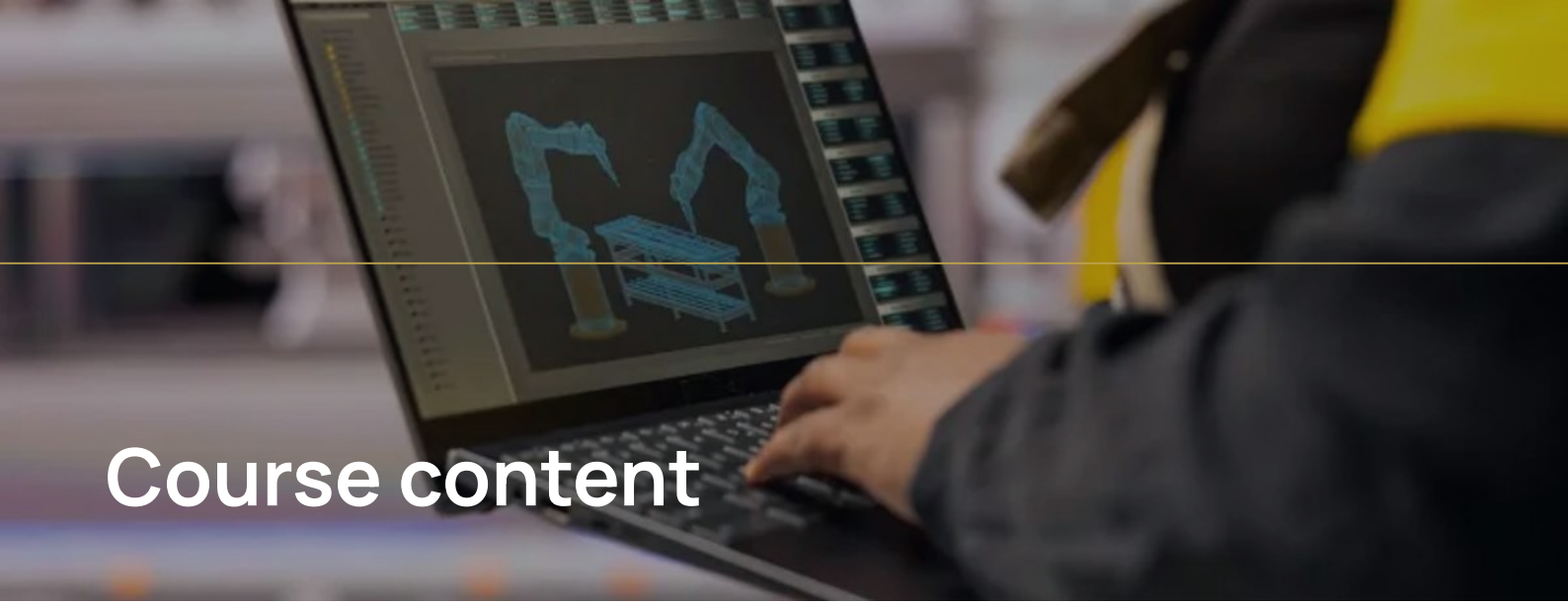
Venue	Start date	End date	Fee (GBP)
Dubai Confirmed dates	9 Nov 2026	13 Nov 2026	**£6,300.–**
Online Confirmed dates	9 Nov 2026	13 Nov 2026	**£1,250.–**
Frankfurt Confirmed dates	23 Nov 2026	27 Nov 2026	**£5,300.–**
Online Confirmed dates	23 Nov 2026	27 Nov 2026	**£1,250.–**
Kuala Lumpur Confirmed dates	7 Dec 2026	11 Dec 2026	**£2,900.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**£1,250.–**
Paris Confirmed dates	14 Dec 2026	18 Dec 2026	**£5,720.–**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**£1,250.–**



Course content

Dates, venues and fees (continued)

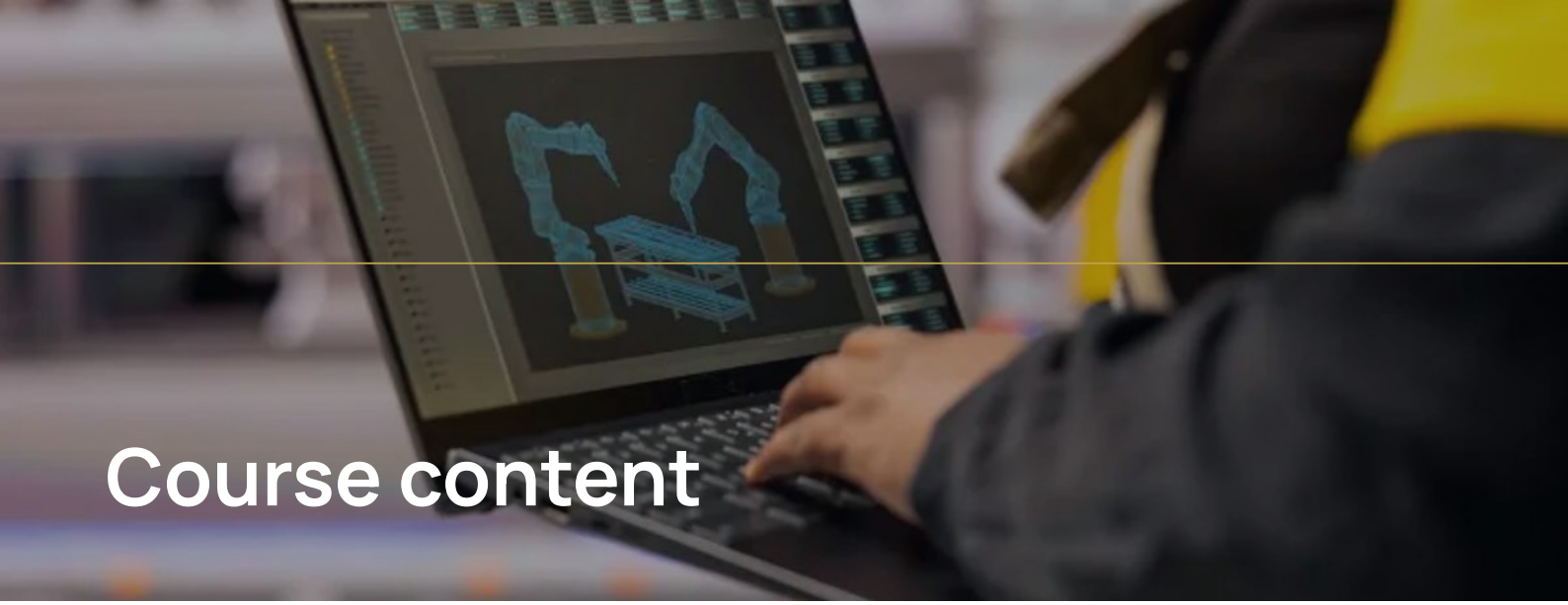
Venue	Start date	End date	Fee (GBP)
Vienna Confirmed dates	4 Jan 2027	8 Jan 2027	**£5,880.–**
Online Confirmed dates	4 Jan 2027	8 Jan 2027	**£1,250.–**
Istanbul Confirmed dates	11 Jan 2027	15 Jan 2027	**£5,300.–**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**£1,250.–**
Amsterdam Confirmed dates	25 Jan 2027	29 Jan 2027	**£5,080.–**
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**£1,250.–**
Singapore Confirmed dates	8 Feb 2027	12 Feb 2027	**£5,640.–**
Online Confirmed dates	8 Feb 2027	12 Feb 2027	**£1,250.–**
London Confirmed dates	22 Feb 2027	26 Feb 2027	**£4,900.–**



Course content

Dates, venues and fees (continued)

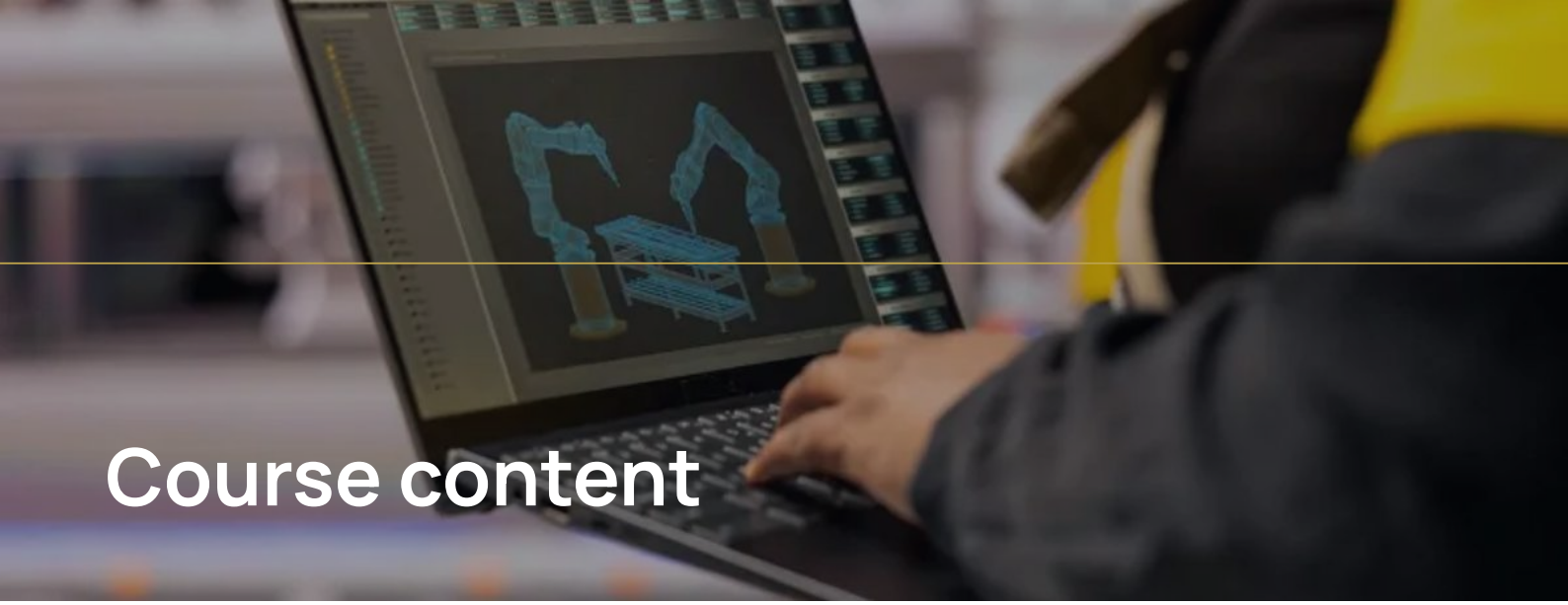
Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	22 Feb 2027	26 Feb 2027	**£1,250.–**
Rome Confirmed dates	1 Mar 2027	5 Mar 2027	**£4,900.–**
Online Confirmed dates	1 Mar 2027	5 Mar 2027	**£1,250.–**
Dubai Confirmed dates	8 Mar 2027	12 Mar 2027	**£6,300.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**£1,250.–**
Frankfurt Confirmed dates	22 Mar 2027	26 Mar 2027	**£5,300.–**
Online Confirmed dates	22 Mar 2027	26 Mar 2027	**£1,250.–**
Kuala Lumpur Confirmed dates	12 Apr 2027	16 Apr 2027	**£2,900.–**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**£1,250.–**



Course content

Dates, venues and fees (continued)

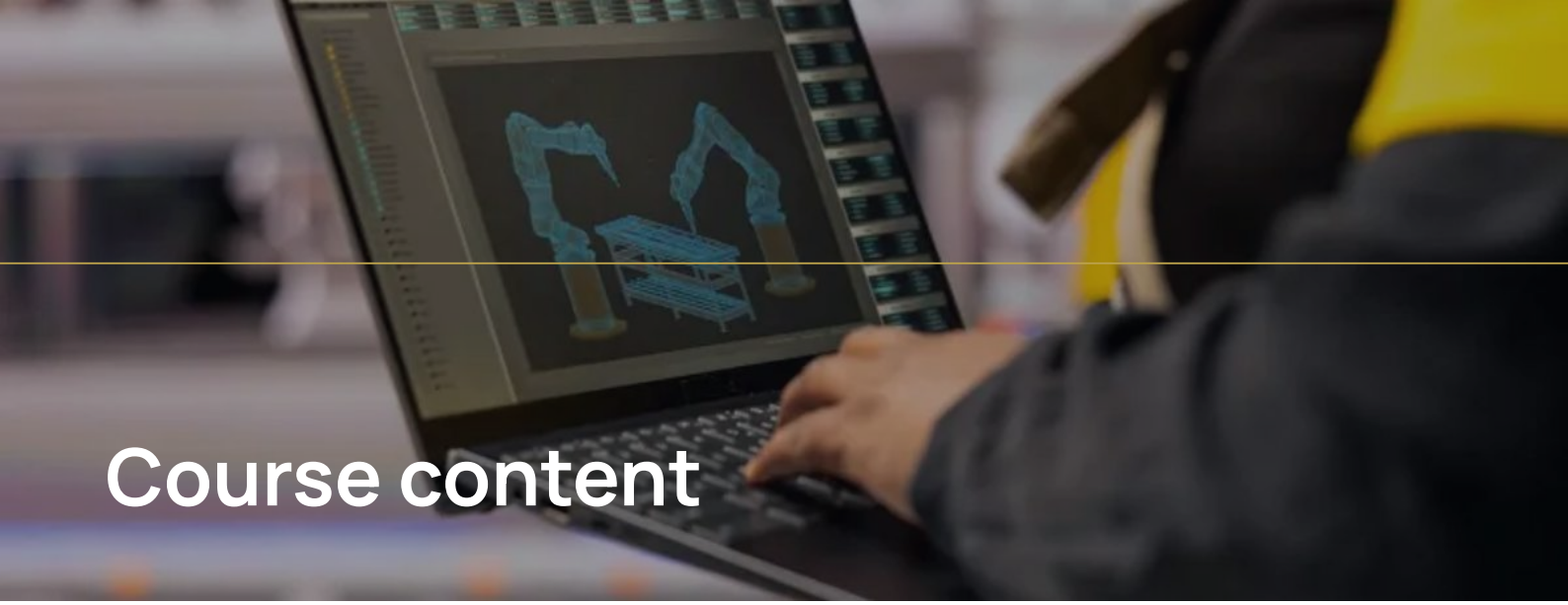
Venue	Start date	End date	Fee (GBP)
Paris Confirmed dates	26 Apr 2027	30 Apr 2027	**£5,720.-**
Online Confirmed dates	26 Apr 2027	30 Apr 2027	**£1,250.-**
Barcelona Confirmed dates	3 May 2027	7 May 2027	**£5,680.-**
Online Confirmed dates	3 May 2027	7 May 2027	**£1,250.-**
Istanbul Confirmed dates	10 May 2027	14 May 2027	**£5,300.-**
Online Confirmed dates	10 May 2027	14 May 2027	**£1,250.-**
Amsterdam Confirmed dates	24 May 2027	28 May 2027	**£5,080.-**
Online Confirmed dates	24 May 2027	28 May 2027	**£1,250.-**
Singapore Confirmed dates	14 Jun 2027	18 Jun 2027	**£5,640.-**



Course content

Dates, venues and fees (continued)

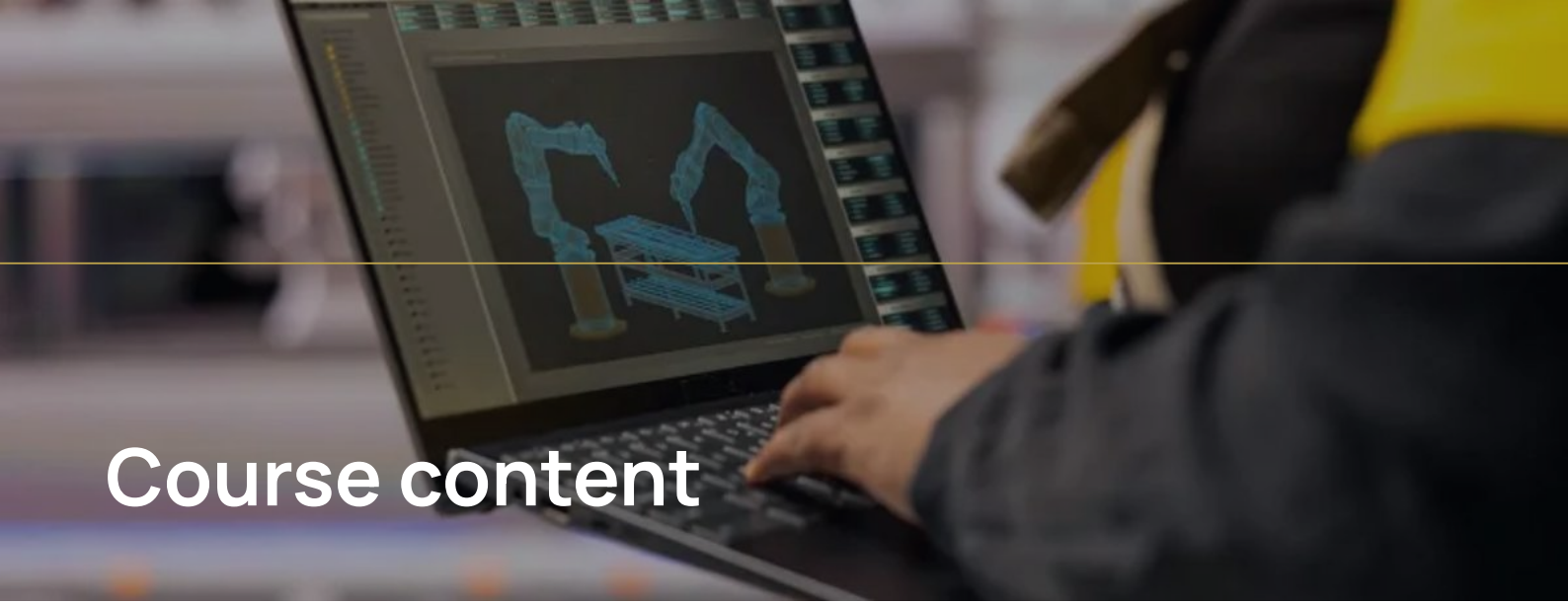
Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**£1,250.–**
London Confirmed dates	21 Jun 2027	25 Jun 2027	**£4,900.–**
Online Confirmed dates	21 Jun 2027	25 Jun 2027	**£1,250.–**
Rome Confirmed dates	5 Jul 2027	9 Jul 2027	**£4,900.–**
Online Confirmed dates	5 Jul 2027	9 Jul 2027	**£1,250.–**
Dubai Confirmed dates	12 Jul 2027	16 Jul 2027	**£6,300.–**
Online Confirmed dates	12 Jul 2027	16 Jul 2027	**£1,250.–**
Frankfurt Confirmed dates	26 Jul 2027	30 Jul 2027	**£5,300.–**
Online Confirmed dates	26 Jul 2027	30 Jul 2027	**£1,250.–**



Course content

Dates, venues and fees (continued)

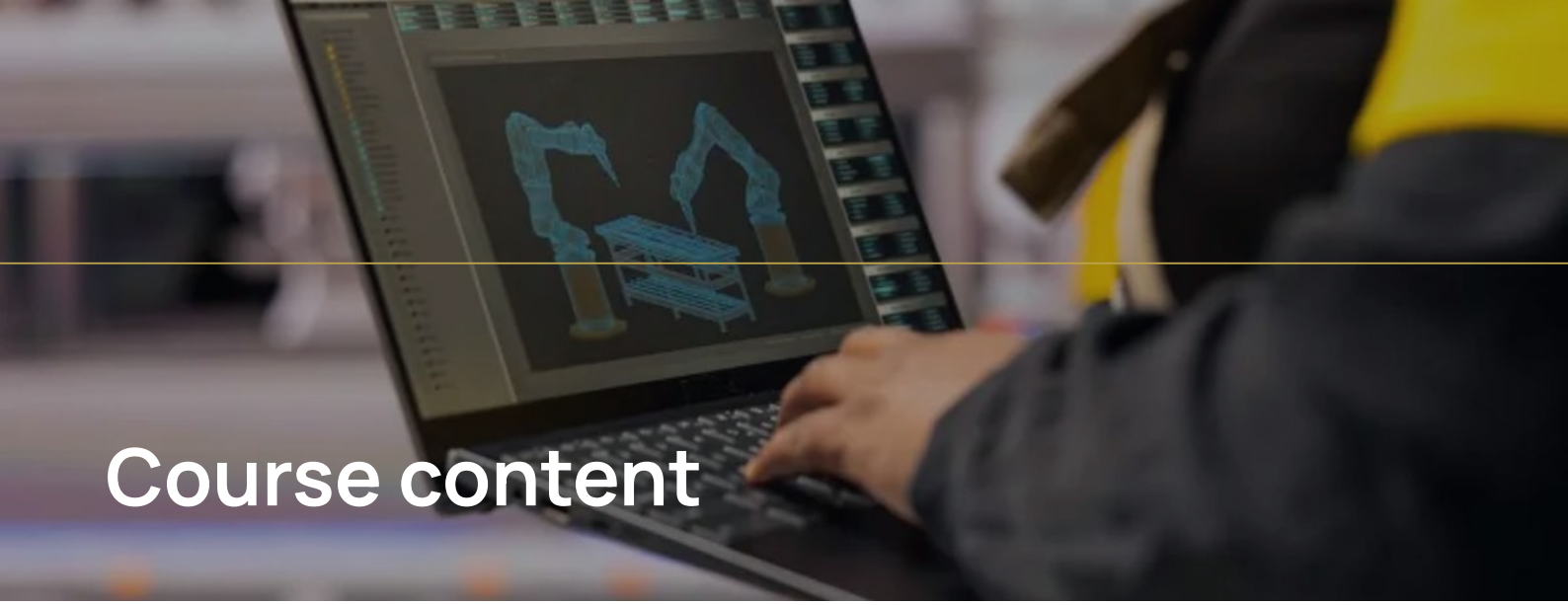
Venue	Start date	End date	Fee (GBP)
Kuala Lumpur Confirmed dates	9 Aug 2027	13 Aug 2027	**£2,900.-**
Online Confirmed dates	9 Aug 2027	13 Aug 2027	**£1,250.-**
Paris Confirmed dates	23 Aug 2027	27 Aug 2027	**£5,720.-**
Online Confirmed dates	23 Aug 2027	27 Aug 2027	**£1,250.-**
Cape Town Confirmed dates	30 Aug 2027	3 Sept 2027	**£3,780.-**
Online Confirmed dates	30 Aug 2027	3 Sept 2027	**£1,250.-**
Istanbul Confirmed dates	13 Sept 2027	17 Sept 2027	**£5,300.-**
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**£1,250.-**
Amsterdam Confirmed dates	20 Sept 2027	24 Sept 2027	**£5,080.-**



Course content

Dates, venues and fees (continued)

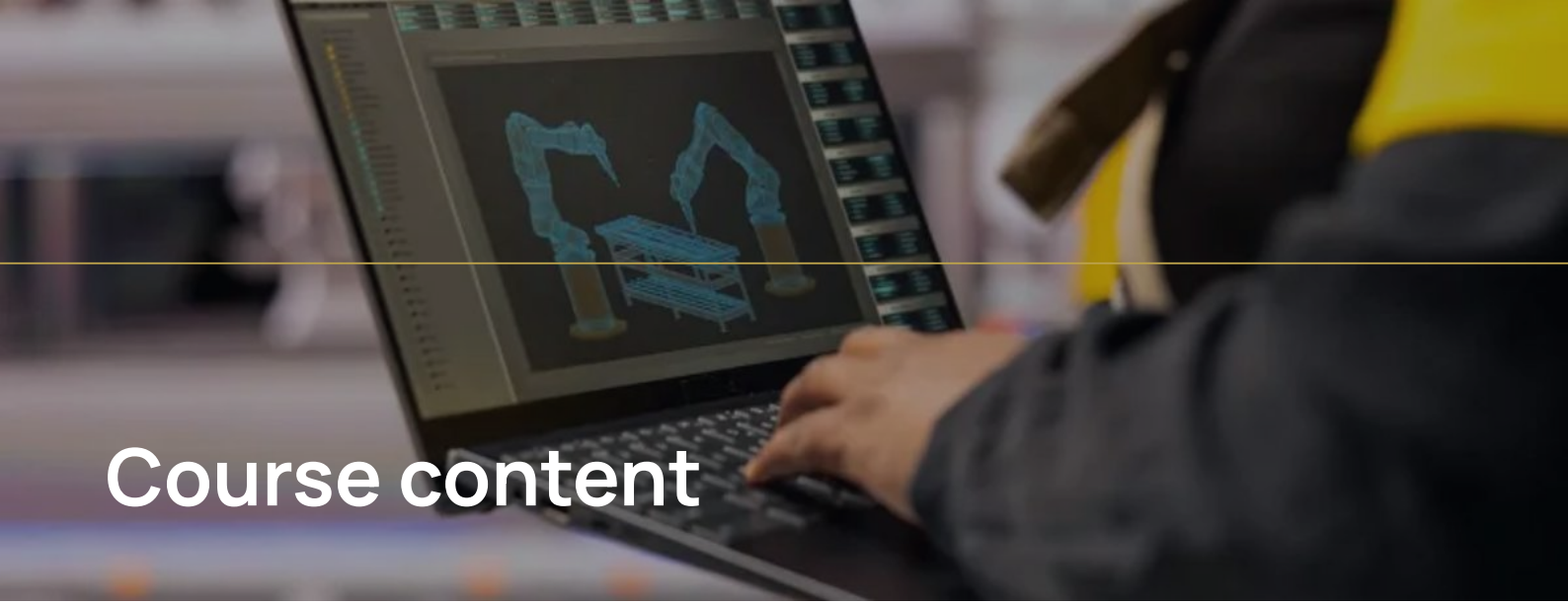
Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**£1,250.-**
Singapore Confirmed dates	11 Oct 2027	15 Oct 2027	**£5,640.-**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**£1,250.-**
London Confirmed dates	25 Oct 2027	29 Oct 2027	**£4,900.-**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**£1,250.-**
Cape Town Confirmed dates	1 Nov 2027	5 Nov 2027	**£3,780.-**
Online Confirmed dates	1 Nov 2027	5 Nov 2027	**£1,250.-**
Dubai Confirmed dates	8 Nov 2027	12 Nov 2027	**£6,300.-**
Online Confirmed dates	8 Nov 2027	12 Nov 2027	**£1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Frankfurt Confirmed dates	22 Nov 2027	26 Nov 2027	**£5,300.-**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**£1,250.-**
Kuala Lumpur Confirmed dates	6 Dec 2027	10 Dec 2027	**£2,900.-**
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**£1,250.-**
Paris Confirmed dates	13 Dec 2027	17 Dec 2027	**£5,720.-**
Online Confirmed dates	13 Dec 2027	17 Dec 2027	**£1,250.-**



Course content

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

info@smarthorizon.uk
2 Kingdom Street, Paddington
London W2 6BD, United Kingdom

View the latest course details online