

QUALITY & OPERATIONAL EXCELLENCE | COURSE BROCHURE

Method Validation for Laboratories

5 days | Classroom training | English

SMART HORIZON

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Course content

Why attend

Laboratories must demonstrate that their test methods are fit for purpose. This course covers method validation and verification: accuracy, precision, linearity, range, limits of detection and quantification, specificity, robustness, measurement uncertainty, statistical evaluation and documentation for accreditation.

Unvalidated methods produce unreliable results and fail accreditation. You will learn to plan and document validation correctly.

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

Validation planning exercises, statistical calculations with real data, case studies and documentation review.

Course objectives

By the end of this course, participants will be able to:
• Distinguish method validation and verification
• Plan validation studies
• Evaluate accuracy, precision and linearity
• Determine detection and quantification limits
• Estimate measurement uncertainty
• Document validation for accreditation

Target audience

This course is suitable for:
• Laboratory analysts and managers
• Quality managers in laboratories
• Method development scientists
• Accreditation coordinators
• QC staff



Course content

Target competencies

Participants will develop competencies in:
- Validation planning
- Statistical evaluation
- Uncertainty estimation
- Documentation
- Accreditation readiness

Course outline

Day 1: Validation Concepts

09:00–10:08	Why validate
10:08–11:00	Validation versus verification
11:00–11:30	**Coffee break**
11:30–11:45	Validation versus verification (continued)
11:45–12:53	Requirements
12:53–14:00	Exercise

Day 2: Planning

09:00–10:08	Validation parameters
10:08–11:00	Protocols
11:00–11:30	**Coffee break**
11:30–11:45	Protocols (continued)
11:45–12:53	Acceptance criteria
12:53–14:00	Workshop

Day 3: Performance Characteristics

09:00–10:08	Accuracy and precision
10:08–11:00	Linearity and range
11:00–11:30	**Coffee break**



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11:30–11:45	Linearity and range (continued)
11:45–12:53	LOD and LOQ
12:53–14:00	Exercise

Day 4: Uncertainty

09:00–10:08	Sources of uncertainty
10:08–11:00	Estimation approaches
11:00–11:30	**Coffee break**
11:30–11:45	Estimation approaches (continued)
11:45–12:53	Reporting
12:53–14:00	Exercise

Day 5: Documentation

09:00–10:08	Validation reports
10:08–11:00	Ongoing verification
11:00–11:30	**Coffee break**
11:30–11:45	Ongoing verification (continued)
11:45–12:53	Accreditation
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)
Barcelona Confirmed dates	16 Nov 2026	20 Nov 2026	**€2,840.–**
Online Confirmed dates	16 Nov 2026	20 Nov 2026	**€1,250.–**
Vienna Confirmed dates	7 Dec 2026	11 Dec 2026	**€2,940.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**€1,250.–**
Rome Confirmed dates	11 Jan 2027	15 Jan 2027	**€2,450.–**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,250.–**
Dubai Confirmed dates	1 Feb 2027	5 Feb 2027	**€3,150.–**
Online Confirmed dates	1 Feb 2027	5 Feb 2027	**€1,250.–**
Amsterdam Confirmed dates	15 Feb 2027	19 Feb 2027	**€2,540.–**



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.–**
Cape Town Confirmed dates	8 Mar 2027	12 Mar 2027	**€1,890.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**€1,250.–**
Barcelona Confirmed dates	29 Mar 2027	2 Apr 2027	**€2,840.–**
Online Confirmed dates	29 Mar 2027	2 Apr 2027	**€1,250.–**
Frankfurt Confirmed dates	19 Apr 2027	23 Apr 2027	**€2,650.–**
Online Confirmed dates	19 Apr 2027	23 Apr 2027	**€1,250.–**
Dubai Confirmed dates	10 May 2027	14 May 2027	**€3,150.–**
Online Confirmed dates	10 May 2027	14 May 2027	**€1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Vienna Confirmed dates	24 May 2027	28 May 2027	**€2,940.-**
Online Confirmed dates	24 May 2027	28 May 2027	**€1,250.-**
Kuala Lumpur Confirmed dates	14 Jun 2027	18 Jun 2027	**€1,450.-**
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**€1,250.-**
Paris Confirmed dates	5 Jul 2027	9 Jul 2027	**€2,860.-**
Online Confirmed dates	5 Jul 2027	9 Jul 2027	**€1,250.-**
Cape Town Confirmed dates	26 Jul 2027	30 Jul 2027	**€1,890.-**
Online Confirmed dates	26 Jul 2027	30 Jul 2027	**€1,250.-**
Istanbul Confirmed dates	16 Aug 2027	20 Aug 2027	**€2,650.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	16 Aug 2027	20 Aug 2027	**€1,250.-**
London Confirmed dates	30 Aug 2027	3 Sept 2027	**€2,450.-**
Online Confirmed dates	30 Aug 2027	3 Sept 2027	**€1,250.-**
Cape Town Confirmed dates	20 Sept 2027	24 Sept 2027	**€1,890.-**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**€1,250.-**
Rome Confirmed dates	11 Oct 2027	15 Oct 2027	**€2,450.-**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**€1,250.-**
London Confirmed dates	1 Nov 2027	5 Nov 2027	**€2,450.-**
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)
Rome Confirmed dates	22 Nov 2027	26 Nov 2027	**€2,450.-**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**€1,250.-**
Dubai Confirmed dates	6 Dec 2027	10 Dec 2027	**€3,150.-**
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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