

QUALITY & OPERATIONAL EXCELLENCE | COURSE BROCHURE

Statistical Process Control

5 days | Classroom training | English

SMART HORIZON

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The Netherlands

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Course content

Why attend

Statistical process control helps teams distinguish normal variation from real problems and act before defects occur. This course covers SPC: variation and its sources, control charts for variable and attribute data, interpreting charts, process stability, implementing SPC on the shop floor and in services.

Reacting to every variation wastes effort; ignoring real signals causes defects. You will learn to read processes statistically.

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

Chart construction exercises with real data, interpretation practice, case studies and implementation planning.

Course objectives

By the end of this course, participants will be able to:
• Explain variation and its common and special causes
• Select appropriate control charts
• Construct variable and attribute control charts
• Interpret control chart signals
• Assess process stability
• Implement SPC in operations

Target audience

This course is suitable for:
• Quality engineers and technicians
• Production supervisors
• Process engineers
• Laboratory staff
• Continuous improvement practitioners



Course content

Target competencies

Participants will develop competencies in:
- Variation analysis
- Chart construction
- Signal interpretation
- Process monitoring
- Implementation

Course outline

Day 1: Variation

09:00–10:08	Common and special causes
10:08–11:00	Data types
11:00–11:30	**Coffee break**
11:30–11:45	Data types (continued)
11:45–12:53	Basic statistics
12:53–14:00	Exercise

Day 2: Variable Charts

09:00–10:08	X-bar and R charts
10:08–11:00	Individuals charts
11:00–11:30	**Coffee break**
11:30–11:45	Individuals charts (continued)
11:45–12:53	Control limits
12:53–14:00	Exercise

Day 3: Attribute Charts

09:00–10:08	p and np charts
10:08–11:00	c and u charts
11:00–11:30	**Coffee break**



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11:30–11:45	c and u charts (continued)
11:45–12:53	Selection
12:53–14:00	Exercise

Day 4: Interpretation

09:00–10:08	Rules for signals
10:08–11:00	Reaction plans
11:00–11:30	**Coffee break**
11:30–11:45	Reaction plans (continued)
11:45–12:53	Stability
12:53–14:00	Case study

Day 5: Implementation

09:00–10:08	Selecting characteristics
10:08–11:00	Operator involvement
11:00–11:30	**Coffee break**
11:30–11:45	Operator involvement (continued)
11:45–12:53	Software
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)
Cape Town Confirmed dates	23 Nov 2026	27 Nov 2026	**€1,890.–**
Online Confirmed dates	23 Nov 2026	27 Nov 2026	**€1,250.–**
Istanbul Confirmed dates	14 Dec 2026	18 Dec 2026	**€2,650.–**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,250.–**
London Confirmed dates	11 Jan 2027	15 Jan 2027	**€2,450.–**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,250.–**
Rome Confirmed dates	1 Feb 2027	5 Feb 2027	**€2,450.–**
Online Confirmed dates	1 Feb 2027	5 Feb 2027	**€1,250.–**
Cape Town Confirmed dates	22 Feb 2027	26 Feb 2027	**€1,890.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	22 Feb 2027	26 Feb 2027	**€1,250.–**
Vienna Confirmed dates	15 Mar 2027	19 Mar 2027	**€2,940.–**
Online Confirmed dates	15 Mar 2027	19 Mar 2027	**€1,250.–**
Dubai Confirmed dates	5 Apr 2027	9 Apr 2027	**€3,150.–**
Online Confirmed dates	5 Apr 2027	9 Apr 2027	**€1,250.–**
Barcelona Confirmed dates	19 Apr 2027	23 Apr 2027	**€2,840.–**
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)
Rome Confirmed dates	31 May 2027	4 Jun 2027	**€2,450.-**
Online Confirmed dates	31 May 2027	4 Jun 2027	**€1,250.-**
Frankfurt Confirmed dates	21 Jun 2027	25 Jun 2027	**€2,650.-**
Online Confirmed dates	21 Jun 2027	25 Jun 2027	**€1,250.-**
Kuala Lumpur Confirmed dates	12 Jul 2027	16 Jul 2027	**€1,450.-**
Online Confirmed dates	12 Jul 2027	16 Jul 2027	**€1,250.-**
Rome Confirmed dates	26 Jul 2027	30 Jul 2027	**€2,450.-**
Online Confirmed dates	26 Jul 2027	30 Jul 2027	**€1,250.-**
Paris Confirmed dates	16 Aug 2027	20 Aug 2027	**€2,860.-**



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.-**
Dubai Confirmed dates	6 Sept 2027	10 Sept 2027	**€3,150.-**
Online Confirmed dates	6 Sept 2027	10 Sept 2027	**€1,250.-**
Cape Town Confirmed dates	27 Sept 2027	1 Oct 2027	**€1,890.-**
Online Confirmed dates	27 Sept 2027	1 Oct 2027	**€1,250.-**
Amsterdam Confirmed dates	18 Oct 2027	22 Oct 2027	**€2,540.-**
Online Confirmed dates	18 Oct 2027	22 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)

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Vienna Confirmed dates	22 Nov 2027	26 Nov 2027	**€2,940.-**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**€1,250.-**
Barcelona Confirmed dates	13 Dec 2027	17 Dec 2027	**€2,840.-**
Online Confirmed dates	13 Dec 2027	17 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