

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Process Plant Troubleshooting

5 days | Classroom training | English

SMART HORIZON

info@smart-horizon.eu
Amsterdam
The Netherlands

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Course content

Why attend

Process upsets, off-spec products and equipment problems need fast, systematic troubleshooting. This course teaches a structured troubleshooting method for process plants: defining the problem, gathering data, understanding the process and equipment, generating and testing hypotheses, implementing fixes safely and preventing recurrence.

Guesswork in troubleshooting wastes time and can be unsafe. You will learn a disciplined method used by expert troubleshooters.

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

Plant troubleshooting cases, data analysis exercises, team problem-solving and lessons-learned reviews.

Course objectives

By the end of this course, participants will be able to:
• Apply a structured troubleshooting method
• Define problems precisely
• Gather and analyse process data
• Use process and equipment knowledge to form hypotheses
• Test solutions safely
• Prevent recurrence and share lessons

Target audience

This course is suitable for:
• Process engineers
• Plant operators and supervisors
• Maintenance engineers
• Technical support engineers
• Production managers



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Target competencies

Participants will develop competencies in:
- Systematic troubleshooting
- Data analysis
- Hypothesis testing
- Safe implementation
- Knowledge sharing

Course outline

Day 1: Troubleshooting Method

09:00–10:08	Why structure matters
10:08–11:00	Troubleshooting steps
11:00–11:30	**Coffee break**
11:30–11:45	Troubleshooting steps (continued)
11:45–12:53	Common mistakes
12:53–14:00	Exercise

Day 2: Problem Definition

09:00–10:08	Is/is not analysis
10:08–11:00	Data gathering
11:00–11:30	**Coffee break**
11:30–11:45	Data gathering (continued)
11:45–12:53	Process history
12:53–14:00	Workshop

Day 3: Process Knowledge

09:00–10:08	Mass and energy balances
10:08–11:00	Equipment behaviour
11:00–11:30	**Coffee break**



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11:30–11:45	Equipment behaviour (continued)
11:45–12:53	Control system effects
12:53–14:00	Exercise

Day 4: Hypotheses and Tests

09:00–10:08	Generating hypotheses
10:08–11:00	Safe testing
11:00–11:30	**Coffee break**
11:30–11:45	Safe testing (continued)
11:45–12:53	Management of change
12:53–14:00	Case study

Day 5: Prevention

09:00–10:08	Root causes
10:08–11:00	Documentation
11:00–11:30	**Coffee break**
11:30–11:45	Documentation (continued)
11:45–12:53	Lessons learned
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)
London Confirmed dates	23 Nov 2026	27 Nov 2026	**€4,900.-**
Online Confirmed dates	23 Nov 2026	27 Nov 2026	**€1,250.-**
Barcelona Confirmed dates	14 Dec 2026	18 Dec 2026	**€5,680.-**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,250.-**
Vienna Confirmed dates	18 Jan 2027	22 Jan 2027	**€5,880.-**
Online Confirmed dates	18 Jan 2027	22 Jan 2027	**€1,250.-**
London Confirmed dates	1 Feb 2027	5 Feb 2027	**€4,900.-**
Online Confirmed dates	1 Feb 2027	5 Feb 2027	**€1,250.-**
Rome Confirmed dates	22 Feb 2027	26 Feb 2027	**€4,900.-**



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.–**
Dubai Confirmed dates	15 Mar 2027	19 Mar 2027	**€6,300.–**
Online Confirmed dates	15 Mar 2027	19 Mar 2027	**€1,250.–**
Vienna Confirmed dates	5 Apr 2027	9 Apr 2027	**€5,880.–**
Online Confirmed dates	5 Apr 2027	9 Apr 2027	**€1,250.–**
Frankfurt Confirmed dates	26 Apr 2027	30 Apr 2027	**€5,300.–**
Online Confirmed dates	26 Apr 2027	30 Apr 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	10 May 2027	14 May 2027	**€2,900.–**
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)
Barcelona Confirmed dates	31 May 2027	4 Jun 2027	**€5,680.-**
Online Confirmed dates	31 May 2027	4 Jun 2027	**€1,250.-**
Dubai Confirmed dates	21 Jun 2027	25 Jun 2027	**€6,300.-**
Online Confirmed dates	21 Jun 2027	25 Jun 2027	**€1,250.-**
Cape Town Confirmed dates	12 Jul 2027	16 Jul 2027	**€3,780.-**
Online Confirmed dates	12 Jul 2027	16 Jul 2027	**€1,250.-**
Rome Confirmed dates	2 Aug 2027	6 Aug 2027	**€4,900.-**
Online Confirmed dates	2 Aug 2027	6 Aug 2027	**€1,250.-**
Cape Town Confirmed dates	16 Aug 2027	20 Aug 2027	**€3,780.-**



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.-**
Amsterdam Confirmed dates	6 Sept 2027	10 Sept 2027	**€5,080.-**
Online Confirmed dates	6 Sept 2027	10 Sept 2027	**€1,250.-**
Dubai Confirmed dates	27 Sept 2027	1 Oct 2027	**€6,300.-**
Online Confirmed dates	27 Sept 2027	1 Oct 2027	**€1,250.-**
Paris Confirmed dates	18 Oct 2027	22 Oct 2027	**€5,720.-**
Online Confirmed dates	18 Oct 2027	22 Oct 2027	**€1,250.-**
Cape Town Confirmed dates	8 Nov 2027	12 Nov 2027	**€3,780.-**
Online Confirmed dates	8 Nov 2027	12 Nov 2027	**€1,250.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Rome Confirmed dates	22 Nov 2027	26 Nov 2027	**€4,900.-**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**€1,250.-**
Istanbul Confirmed dates	13 Dec 2027	17 Dec 2027	**€5,300.-**
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

info@smart-horizon.eu
Amsterdam
The Netherlands

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