

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

P&ID Reading and Interpretation

5 days | Classroom training | English

SMART HORIZON

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Course content

Why attend

Piping and instrumentation diagrams are the language of process plants. This course teaches how to read and interpret P&IDs: symbols and standards, lines, valves and equipment, instrumentation and control loops, interlocks, tagging conventions and using P&IDs for operations, maintenance, isolation and safety studies.

Misreading P&IDs leads to errors in maintenance and isolation. You will learn to read them accurately and confidently.

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

Drawing exercises with real P&IDs, symbol quizzes, isolation planning tasks and case studies.

Course objectives

By the end of this course, participants will be able to:
• Recognise standard P&ID symbols
• Trace process lines and equipment
• Interpret instrumentation and control loops
• Understand interlocks and safety systems
• Use tagging conventions
• Apply P&IDs to isolation and maintenance planning

Target audience

This course is suitable for:
• Operators and technicians
• Maintenance planners
• Process and instrument engineers
• Safety professionals
• New engineers



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Target competencies

Participants will develop competencies in:
- Symbol recognition
- Drawing interpretation
- Control loop understanding
- Isolation planning
- Documentation

Course outline

Day 1: P&ID Basics

09:00–10:08	Purpose of P&IDs
10:08–11:00	Standards
11:00–11:30	**Coffee break**
11:30–11:45	Standards (continued)
11:45–12:53	Drawing layout
12:53–14:00	Exercise

Day 2: Equipment and Lines

09:00–10:08	Equipment symbols
10:08–11:00	Line numbering
11:00–11:30	**Coffee break**
11:30–11:45	Line numbering (continued)
11:45–12:53	Valves
12:53–14:00	Exercise

Day 3: Instrumentation

09:00–10:08	Instrument symbols
10:08–11:00	Control loops
11:00–11:30	**Coffee break**



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11:30–11:45	Control loops (continued)
11:45–12:53	Tagging
12:53–14:00	Workshop

Day 4: Safety Systems

09:00–10:08	Interlocks
10:08–11:00	Relief devices
11:00–11:30	**Coffee break**
11:30–11:45	Relief devices (continued)
11:45–12:53	Shutdown systems
12:53–14:00	Exercise

Day 5: Applications

09:00–10:08	Isolation planning
10:08–11:00	Maintenance use
11:00–11:30	**Coffee break**
11:30–11:45	Maintenance use (continued)
11:45–12:53	Keeping drawings current
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)
Dubai Confirmed dates	23 Nov 2026	27 Nov 2026	**€6,300.-**
Online Confirmed dates	23 Nov 2026	27 Nov 2026	**€1,250.-**
London Confirmed dates	7 Dec 2026	11 Dec 2026	**€4,900.-**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**€1,250.-**
Cape Town Confirmed dates	11 Jan 2027	15 Jan 2027	**€3,780.-**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,250.-**
Vienna Confirmed dates	1 Feb 2027	5 Feb 2027	**€5,880.-**
Online Confirmed dates	1 Feb 2027	5 Feb 2027	**€1,250.-**
Frankfurt Confirmed dates	22 Feb 2027	26 Feb 2027	**€5,300.-**



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	29 Mar 2027	2 Apr 2027	**€5,880.–**
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.–**
Istanbul Confirmed dates	10 May 2027	14 May 2027	**€5,300.–**
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.-**
London Confirmed dates	21 Jun 2027	25 Jun 2027	**€4,900.-**
Online Confirmed dates	21 Jun 2027	25 Jun 2027	**€1,250.-**
Cape Town Confirmed dates	5 Jul 2027	9 Jul 2027	**€3,780.-**
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.-**
Barcelona Confirmed dates	16 Aug 2027	20 Aug 2027	**€5,680.-**



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.-**
Kuala Lumpur Confirmed dates	6 Sept 2027	10 Sept 2027	**€2,900.-**
Online Confirmed dates	6 Sept 2027	10 Sept 2027	**€1,250.-**
Rome Confirmed dates	27 Sept 2027	1 Oct 2027	**€4,900.-**
Online Confirmed dates	27 Sept 2027	1 Oct 2027	**€1,250.-**
Cape Town Confirmed dates	11 Oct 2027	15 Oct 2027	**€3,780.-**
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)
Paris Confirmed dates	22 Nov 2027	26 Nov 2027	**€5,720.-**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**€1,250.-**
Rome Confirmed dates	13 Dec 2027	17 Dec 2027	**€4,900.-**
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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