

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Compressed Air Systems Efficiency

5 days | Classroom training | English

SMART HORIZON

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Course content

Why attend

Compressed air is one of the most expensive utilities in industrial plants, and much of it is wasted through leaks and poor practices. This course covers compressed air generation, treatment and distribution, demand analysis, leak detection and repair, pressure optimisation, control strategies, heat recovery and maintenance.

Improving compressed air systems often delivers large energy savings quickly. You will learn to find and capture those savings.

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

System audits, leak detection demonstrations, energy calculations and improvement planning.

Course objectives

By the end of this course, participants will be able to:
• Explain compressed air system components
• Measure system demand and efficiency
• Detect and repair leaks
• Optimise pressure and controls
• Recover heat from compressors
• Maintain systems for efficiency

Target audience

This course is suitable for:
• Energy managers
• Maintenance engineers and technicians
• Utility engineers
• Plant managers
• Facility managers



Course content

Target competencies

Participants will develop competencies in:

- System analysis
- Leak management
- Energy calculation
- Control optimisation
- Maintenance

Course outline

Day 1: Compressed Air Systems

09:00–10:08	Generation and treatment
10:08–11:00	Distribution
11:00–11:30	**Coffee break**
11:30–11:45	Distribution (continued)
11:45–12:53	Costs
12:53–14:00	Exercise

Day 2: Demand Analysis

09:00–10:08	Measuring demand
10:08–11:00	Inappropriate uses
11:00–11:30	**Coffee break**
11:30–11:45	Inappropriate uses (continued)
11:45–12:53	Baselines
12:53–14:00	Workshop

Day 3: Leaks

09:00–10:08	Leak detection methods
10:08–11:00	Repair programmes
11:00–11:30	**Coffee break**



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11:30–11:45	Repair programmes (continued)
11:45–12:53	Savings
12:53–14:00	Demonstration

Day 4: Optimisation

09:00–10:08	Pressure reduction
10:08–11:00	Control strategies
11:00–11:30	**Coffee break**
11:30–11:45	Control strategies (continued)
11:45–12:53	Heat recovery
12:53–14:00	Exercise

Day 5: Maintenance

09:00–10:08	Filters and dryers
10:08–11:00	Monitoring
11:00–11:30	**Coffee break**
11:30–11:45	Monitoring (continued)
11:45–12:53	Improvement plan
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)
Vienna Confirmed dates	16 Nov 2026	20 Nov 2026	**€5,880.–**
Online Confirmed dates	16 Nov 2026	20 Nov 2026	**€1,250.–**
Amsterdam Confirmed dates	7 Dec 2026	11 Dec 2026	**€5,080.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**€1,250.–**
Rome Confirmed dates	11 Jan 2027	15 Jan 2027	**€4,900.–**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,250.–**
Dubai Confirmed dates	1 Feb 2027	5 Feb 2027	**€6,300.–**
Online Confirmed dates	1 Feb 2027	5 Feb 2027	**€1,250.–**
Cape Town Confirmed dates	22 Feb 2027	26 Feb 2027	**€3,780.–**



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	8 Mar 2027	12 Mar 2027	**€6,300.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**€1,250.–**
Barcelona Confirmed dates	29 Mar 2027	2 Apr 2027	**€5,680.–**
Online Confirmed dates	29 Mar 2027	2 Apr 2027	**€1,250.–**
London Confirmed dates	19 Apr 2027	23 Apr 2027	**€4,900.–**
Online Confirmed dates	19 Apr 2027	23 Apr 2027	**€1,250.–**
Rome Confirmed dates	10 May 2027	14 May 2027	**€4,900.–**
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)
Vienna Confirmed dates	31 May 2027	4 Jun 2027	**€5,880.–**
Online Confirmed dates	31 May 2027	4 Jun 2027	**€1,250.–**
Cape Town Confirmed dates	14 Jun 2027	18 Jun 2027	**€3,780.–**
Online Confirmed dates	14 Jun 2027	18 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.–**
Istanbul Confirmed dates	26 Jul 2027	30 Jul 2027	**€5,300.–**
Online Confirmed dates	26 Jul 2027	30 Jul 2027	**€1,250.–**
Dubai Confirmed dates	16 Aug 2027	20 Aug 2027	**€6,300.–**



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.-**
Paris Confirmed dates	6 Sept 2027	10 Sept 2027	**€5,720.-**
Online Confirmed dates	6 Sept 2027	10 Sept 2027	**€1,250.-**
Barcelona Confirmed dates	20 Sept 2027	24 Sept 2027	**€5,680.-**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**€1,250.-**
Frankfurt Confirmed dates	11 Oct 2027	15 Oct 2027	**€5,300.-**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**€1,250.-**
Kuala Lumpur Confirmed dates	1 Nov 2027	5 Nov 2027	**€2,900.-**
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)
Cape Town Confirmed dates	22 Nov 2027	26 Nov 2027	**€3,780.-**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**€1,250.-**
London 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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View the latest course details online