Garnet
Garnet Global Training Center

GGT-CH-116

Chemical & Process Engineering

Laboratory Analysis for Process Control

التحليل المخبري للتحكم في العمليات

Duration	Language	Formats	Hours	Level
5 or 10 days	**English or Arabic**	**Classroom, online, in-house**	**35 / 70**	**Intermediate (management)**

Overview

Laboratory Analysis for Process Control helps participants move from doing the work to managing it, with planning tools, control methods and reporting that management trusts. Process design, control and optimisation for chemical, petrochemical and fertiliser plants. You can join a public session in one of 20 cities or live online, in English or Arabic, or bring the course in-house with examples from your own operations.

What you will be able to do

- Set up and run Laboratory Analysis for Process Control as a managed process with clear roles.
- Manage contractors, suppliers and internal customers.
- Plan resources, budgets and schedules realistically.
- Define KPIs and build simple dashboards for management.
- Control risk, quality and compliance in this area.

Who should attend

Process and chemical engineers, plant operators and technical service teams. It suits supervisors, section heads and specialists who manage, or are about to manage, this area.

Key topics

- Mass and energy balances
- Unit operations
- Process control
- Simulation and optimisation
- Catalysts and reactions
- Troubleshooting

Formats and fees

5-day classroom	**USD 4,750**
5-day online	**USD 2,950**
10-day classroom	**USD 8,950**
10-day online	**USD 5,450**
In-house	**Quotation per group**

Fees per participant, excluding VAT.

Register or ask

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Email: info@garnettrainings.com

Training: training@garnettrainings.com

Web: garnettrainings.com

Sharjah Publishing City Free Zone, Sharjah, UAE

Certificate

Participants who attend at least 90% of sessions and complete the final assessment receive a certificate of completion stating 35 contact hours (5-day) or 70 contact hours (10-day).

5-day outline

Day 1 Laboratory Analysis for Process Control: the management framework

- Troubleshooting
- Group discussion and peer review

Day 2 Planning, resources and budgets

- Mass and energy balances
- Unit operations

Day 3 Performance measurement and control

- Process control
- Measurement and reporting

Day 4 Risk, compliance and improvement

- Simulation and optimisation
- Hands-on workshop on a workplace challenge

Day 5 Management case study and action plan

- Catalysts and reactions
- Common mistakes and how to avoid them

10-day outline

Day 1 Laboratory Analysis for Process Control: the management framework

- Troubleshooting
- Group discussion and peer review

Day 2 Planning, resources and budgets

- Mass and energy balances
- Unit operations

Day 3 Performance measurement and control

- Process control
- Measurement and reporting

Day 4 Risk, compliance and improvement

- Simulation and optimisation
- Hands-on workshop on a workplace challenge

Day 5 Management case study and action plan

- Catalysts and reactions
- Common mistakes and how to avoid them

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Regional and international case studies

Day 7 Digital tools, data and automation

- Analysis tools and software
- Using AI in this field

Day 8 Benchmarking against international practice

- Global performance benchmarks
- Checklists and templates to take away

Day 9 Capstone project

- Analyse a real challenge from your organisation
- Build the solution and implementation plan

Day 10 Presentations, final assessment and certificates

- Project presentations and review
- Final exam and certificate award

Schedule 2027–2030

Dates	Format	City	Language	Fee (USD)
18–22 Jan 2027	5-day classroom	Istanbul	English	4,750
11–22 Apr 2027	10-day classroom	Riyadh	Arabic	8,950
15–19 Aug 2027	5-day classroom	Kuwait City	English	4,750
8–12 Nov 2027	5-day online	Live online	English	2,950
6–17 Mar 2028	10-day online	Live online	Arabic	5,450
1–5 May 2028	5-day classroom	Istanbul	English	4,750
19–23 Jun 2028	5-day classroom	Paris	English	4,750
6–17 Aug 2028	10-day classroom	Riyadh	English	8,950
4–15 Mar 2029	10-day classroom	Muscat	Arabic	8,950

Dates	Format	City	Language	Fee (USD)
2–6 Jul 2029	5-day classroom	Dubai	Arabic	4,750
15–19 Oct 2029	5-day classroom	Abu Dhabi	Arabic	4,750
3–7 Dec 2029	5-day online	Live online	English	2,950
3–7 Feb 2030	5-day classroom	Riyadh	English	4,750
10–21 Mar 2030	10-day classroom	Cairo	Arabic	8,950
19–23 Aug 2030	5-day classroom	Casablanca	English	4,750
18–29 Nov 2030	10-day online	Live online	Arabic	5,450

Customised and in-house versions of this course are available on request. garnettrainings.com/en/customise/