Garnet
Garnet Global Training Center

GGT-MN-102

Mining, Metals & Cement

Kiln Operation & Optimisation

تشغيل الأفران وتحسينها

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

Overview

This program treats Kiln Operation & Optimisation as a managed system: policies, roles, resources, performance indicators and continual improvement. Process, maintenance and safety programs for mines, smelters and cement plants. Choose 5 or 10 days, classroom or live online, English or Arabic; organisations can also run it in-house and adapt the examples to their own work.

What you will be able to do

- Set up and run Kiln Operation & Optimisation as a managed process with clear roles.
- Define KPIs and build simple dashboards for management.
- Control risk, quality and compliance in this area.
- Lead improvement projects and measure their benefit.
- Report clearly to senior management and stakeholders.

Who should attend

Process and maintenance engineers, plant managers and safety leads in heavy industry. It suits supervisors, section heads and specialists who manage, or are about to manage, this area.

Key topics

- Process flow and mass balance
- Kilns, mills and crushers
- Wear, refractories and reliability
- Energy and fuel efficiency
- Dust, emissions and safety
- Quality control

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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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 Kiln Operation & Optimisation: the management framework

- Wear, refractories and reliability
- Regional and international case studies

Day 2 Planning, resources and budgets

- Energy and fuel efficiency
- Dust, emissions and safety

Day 3 Performance measurement and control

- Quality control
- Checklists and templates to take away

Day 4 Risk, compliance and improvement

- Process flow and mass balance
- Group discussion and peer review

Day 5 Management case study and action plan

- Kilns, mills and crushers
- Measurement and reporting

10-day outline

Day 1 Kiln Operation & Optimisation: the management framework

- Wear, refractories and reliability
- Regional and international case studies

Day 2 Planning, resources and budgets

- Energy and fuel efficiency
- Dust, emissions and safety

Day 3 Performance measurement and control

- Quality control
- Checklists and templates to take away

Day 4 Risk, compliance and improvement

- Process flow and mass balance
- Group discussion and peer review

Day 5 Management case study and action plan

- Kilns, mills and crushers
- Measurement and reporting

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Hands-on workshop on a workplace challenge

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
- Common mistakes and how to avoid them

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)
8–12 Mar 2027	5-day classroom	Istanbul	English	4,750
17–21 May 2027	5-day online	Live online	English	2,950
18–22 Oct 2027	5-day classroom	Dubai	Arabic	4,750
8–19 Nov 2027	10-day classroom	London	English	8,950
10–21 Jan 2028	10-day classroom	Barcelona	English	8,950
14–18 May 2028	5-day classroom	Doha	Arabic	4,750
19–30 Jun 2028	10-day online	Live online	Arabic	5,450
6–10 Aug 2028	5-day classroom	Cairo	English	4,750
4–8 Feb 2029	5-day classroom	Jeddah	English	4,750

Dates	Format	City	Language	Fee (USD)
3–7 Sep 2029	5-day online	Live online	Arabic	2,950
4–8 Nov 2029	5-day classroom	Cairo	English	4,750
2–13 Dec 2029	10-day classroom	Riyadh	Arabic	8,950
13–17 Jan 2030	5-day classroom	Doha	English	4,750
2–13 Sep 2030	10-day online	Live online	Arabic	5,450
7–18 Oct 2030	10-day classroom	London	English	8,950
9–13 Dec 2030	5-day classroom	Istanbul	English	4,750

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