Garnet
Garnet Global Training Center

GGT-MN-108

Mining, Metals & Cement **Rare specialisation**

Aluminium Smelting Operations

عمليات صهر الألومنيوم

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

Overview

Participants in Aluminium Smelting Operations practise the methods, tools and standards they need to perform reliably and solve problems on the job. Process, maintenance and safety programs for mines, smelters and cement plants. It runs as a 5-day or 10-day program in English or Arabic, in classrooms in Dubai, Riyadh, Cairo, London, Istanbul and other cities, or live online, and can be delivered in-house.

What you will be able to do

- Apply the methods and standards of Aluminium Smelting Operations to real tasks.
- Diagnose common problems and identify root causes.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.

Who should attend

Process and maintenance engineers, plant managers and safety leads in heavy industry. Practitioners with one to five years of experience benefit most.

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 Aluminium Smelting Operations: principles and standards

- Energy and fuel efficiency
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Dust, emissions and safety
- Quality control

Day 3 Diagnosis and problem solving

- Process flow and mass balance
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Kilns, mills and crushers
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Wear, refractories and reliability
- Checklists and templates to take away

10-day outline

Day 1 Aluminium Smelting Operations: principles and standards

- Energy and fuel efficiency
- Hands-on workshop on a workplace challenge

Day 2 Methods and tools in practice

- Dust, emissions and safety
- Quality control

Day 3 Diagnosis and problem solving

- Process flow and mass balance
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Kilns, mills and crushers
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Wear, refractories and reliability
- Checklists and templates to take away

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Group discussion and peer review

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
- Measurement and reporting

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)
3–7 Jan 2027	5-day classroom	Riyadh	English	4,750
7–11 Feb 2027	5-day classroom	Manama	English	4,750
5–9 Apr 2027	5-day online	Live online	English	2,950
12–23 Dec 2027	10-day classroom	Kuwait City	Arabic	8,950
2–6 Jan 2028	5-day classroom	Riyadh	Arabic	4,750
5–16 Jun 2028	10-day online	Live online	Arabic	5,450
17–21 Jul 2028	5-day classroom	Casablanca	English	4,750
7–18 Aug 2028	10-day classroom	Dubai	English	8,950
5–9 Feb 2029	5-day classroom	London	English	4,750

Dates	Format	City	Language	Fee (USD)
3–7 Jun 2029	5-day classroom	Doha	Arabic	4,750
2–13 Sep 2029	10-day classroom	Muscat	English	8,950
12–16 Nov 2029	5-day online	Live online	English	2,950
15–19 Apr 2030	5-day classroom	Dubai	English	4,750
16–27 Sep 2030	10-day classroom	London	English	8,950
20–24 Oct 2030	5-day classroom	Cairo	English	4,750
4–15 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/