Garnet
Garnet Global Training Center

GGT-MN-131

Mining, Metals & Cement

# Raw Mix Design & Chemistry

تصميم الخلطة الخام وكيميائها

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

## Overview

Participants in Raw Mix Design & Chemistry 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 Raw Mix Design & Chemistry to real tasks.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.
- Use the right tools, checks and calculations step by step.
- Diagnose common problems and identify root causes.

## 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

**WhatsApp:** +971 56 674 7382

**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 Raw Mix Design & Chemistry: principles and standards

- Process flow and mass balance
- Checklists and templates to take away

### Day 2 Methods and tools in practice

- Kilns, mills and crushers
- Wear, refractories and reliability

### Day 3 Diagnosis and problem solving

- Energy and fuel efficiency
- Group discussion and peer review

### Day 4 Quality, safety and documentation

- Dust, emissions and safety
- Measurement and reporting

### Day 5 Workshop, assessment and action plan

- Quality control
- Hands-on workshop on a workplace challenge

## 10-day outline

### Day 1 Raw Mix Design & Chemistry: principles and standards

- Process flow and mass balance
- Checklists and templates to take away

### Day 2 Methods and tools in practice

- Kilns, mills and crushers
- Wear, refractories and reliability

### Day 3 Diagnosis and problem solving

- Energy and fuel efficiency
- Group discussion and peer review

### Day 4 Quality, safety and documentation

- Dust, emissions and safety
- Measurement and reporting

### Day 5 Workshop, assessment and action plan

- Quality control
- Hands-on workshop on a workplace challenge

### Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Common mistakes and how to avoid them

### 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
- Regional and international case studies

### 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) |
|---|---|---|---|---|
| 15–19 Feb 2027 | 5-day classroom | Abu Dhabi | Arabic | 4,750 |
| 13–24 Sep 2027 | 10-day classroom | Geneva | English | 8,950 |
| 18–22 Oct 2027 | 5-day online | Live online | English | 2,950 |
| 20–24 Dec 2027 | 5-day classroom | Istanbul | English | 4,750 |
| 5–16 Mar 2028 | 10-day classroom | Doha | English | 8,950 |
| 10–21 Apr 2028 | 10-day online | Live online | English | 5,450 |
| 1–5 Oct 2028 | 5-day classroom | Riyadh | Arabic | 4,750 |
| 5–9 Nov 2028 | 5-day classroom | Kuwait City | English | 4,750 |
| 15–19 Jan 2029 | 5-day classroom | Vienna | English | 4,750 |

| Dates | Format | City | Language | Fee (USD) |
|---|---|---|---|---|
| 11–22 Feb 2029 | 10-day classroom | Kuwait City | Arabic | 8,950 |
| 7–11 May 2029 | 5-day online | Live online | English | 2,950 |
| 16–20 Dec 2029 | 5-day classroom | Riyadh | Arabic | 4,750 |
| 18–29 Mar 2030 | 10-day online | Live online | Arabic | 5,450 |
| 8–19 Apr 2030 | 10-day classroom | London | English | 8,950 |
| 7–11 Jul 2030 | 5-day classroom | Kuwait City | English | 4,750 |
| 5–9 Aug 2030 | 5-day classroom | Singapore | English | 4,750 |

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