Garnet
Garnet Global Training Center

GGT-MN-128

Mining, Metals & Cement

Iron & Direct Reduced Iron Production

إنتاج الحديد والحديد المختزل المباشر

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

Overview

Iron & Direct Reduced Iron Production turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. 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

- Apply the methods and standards of Iron & Direct Reduced Iron Production 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

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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 Iron & Direct Reduced Iron Production: principles and standards

- Kilns, mills and crushers
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Wear, refractories and reliability
- Energy and fuel efficiency

Day 3 Diagnosis and problem solving

- Dust, emissions and safety
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Quality control
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Process flow and mass balance
- Hands-on workshop on a workplace challenge

10-day outline

Day 1 Iron & Direct Reduced Iron Production: principles and standards

- Kilns, mills and crushers
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Wear, refractories and reliability
- Energy and fuel efficiency

Day 3 Diagnosis and problem solving

- Dust, emissions and safety
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Quality control
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Process flow and mass balance
- 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)
4–15 Jan 2027	10-day classroom	Barcelona	English	8,950
8–12 Mar 2027	5-day classroom	Paris	English	4,750
19–23 Jul 2027	5-day online	Live online	Arabic	2,950
16–20 Aug 2027	5-day classroom	Dubai	English	4,750
12–16 Jun 2028	5-day classroom	London	English	4,750
10–21 Jul 2028	10-day classroom	Abu Dhabi	English	8,950
16–27 Oct 2028	10-day online	Live online	Arabic	5,450
18–22 Dec 2028	5-day classroom	Paris	English	4,750
4–15 Feb 2029	10-day classroom	Jeddah	English	8,950

Dates	Format	City	Language	Fee (USD)
12–16 Mar 2029	5-day classroom	Vienna	English	4,750
1–5 Jul 2029	5-day classroom	Cairo	English	4,750
3–7 Dec 2029	5-day online	Live online	Arabic	2,950
4–15 Feb 2030	10-day classroom	Istanbul	English	8,950
8–12 Jul 2030	5-day classroom	Vienna	English	4,750
12–23 Aug 2030	10-day online	Live online	English	5,450
8–12 Sep 2030	5-day classroom	Kuwait City	English	4,750

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