Garnet
Garnet Global Training Center

GGT-MF-130

Manufacturing & Industrial Engineering **New from 2029**

Generative Design & AI in Manufacturing

التصميم التوليدي والذكاء الاصطناعي في التصنيع

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

Overview

Generative Design & AI in Manufacturing focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. Run productive, high-quality factories with lean methods, planning and modern manufacturing technology. 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 Generative Design & AI in Manufacturing 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

Production managers, industrial and manufacturing engineers, plant supervisors. Practitioners with one to five years of experience benefit most.

Key topics

- Production systems
- Lean and waste reduction
- Planning and scheduling
- Quality at source
- Automation and Industry 4.0
- Productivity measurement

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 Generative Design & AI in Manufacturing: principles and standards

- Automation and Industry 4.0
- Regional and international case studies

Day 2 Methods and tools in practice

- Productivity measurement
- Production systems

Day 3 Diagnosis and problem solving

- Lean and waste reduction
- Checklists and templates to take away

Day 4 Quality, safety and documentation

- Planning and scheduling
- Group discussion and peer review

Day 5 Workshop, assessment and action plan

- Quality at source
- Measurement and reporting

10-day outline

Day 1 Generative Design & AI in Manufacturing: principles and standards

- Automation and Industry 4.0
- Regional and international case studies

Day 2 Methods and tools in practice

- Productivity measurement
- Production systems

Day 3 Diagnosis and problem solving

- Lean and waste reduction
- Checklists and templates to take away

Day 4 Quality, safety and documentation

- Planning and scheduling
- Group discussion and peer review

Day 5 Workshop, assessment and action plan

- Quality at source
- 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)
19–23 Feb 2029	5-day online	Live online	Arabic	2,950
5–16 Mar 2029	10-day classroom	Dubai	English	8,950
10–14 Sep 2029	5-day classroom	Paris	English	4,750
2–6 Dec 2029	5-day classroom	Doha	English	4,750
18–29 Mar 2030	10-day classroom	Istanbul	English	8,950
5–9 May 2030	5-day classroom	Cairo	Arabic	4,750
19–23 Aug 2030	5-day classroom	Amsterdam	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/