Garnet
Garnet Global Training Center

GGT-WN-102

Inspection, Welding & NDT

Welding Technology & Metallurgy

تكنولوجيا اللحام وعلم المعادن

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

Overview

Welding Technology & Metallurgy focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. Inspection and welding programs aligned with international codes, from technician to lead inspector. You can join a public session in one of 20 cities or live online, in English or Arabic, or bring the course in-house with examples from your own operations.

What you will be able to do

- Apply the methods and standards of Welding Technology & Metallurgy 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

Inspectors, welding engineers and supervisors, NDT technicians and QA/QC staff. Practitioners with one to five years of experience benefit most.

Key topics

- Codes: ASME, API, AWS
- Welding processes and metallurgy
- NDT methods and acceptance criteria
- Inspection planning
- Defect assessment
- Reports and documentation

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 Welding Technology & Metallurgy: principles and standards

- Defect assessment
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Reports and documentation
- Codes: ASME, API, AWS

Day 3 Diagnosis and problem solving

- Welding processes and metallurgy
- Regional and international case studies

Day 4 Quality, safety and documentation

- NDT methods and acceptance criteria
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Inspection planning
- Group discussion and peer review

10-day outline

Day 1 Welding Technology & Metallurgy: principles and standards

- Defect assessment
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Reports and documentation
- Codes: ASME, API, AWS

Day 3 Diagnosis and problem solving

- Welding processes and metallurgy
- Regional and international case studies

Day 4 Quality, safety and documentation

- NDT methods and acceptance criteria
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Inspection planning
- Group discussion and peer review

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Measurement and reporting

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
- Hands-on workshop on a workplace challenge

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)
16–20 May 2027	5-day classroom	Riyadh	Arabic	4,750
19–23 Sep 2027	5-day classroom	Doha	Arabic	4,750
8–19 Nov 2027	10-day classroom	Dubai	English	8,950
6–10 Dec 2027	5-day online	Live online	English	2,950
21 Feb – 3 Mar 2028	10-day classroom	Istanbul	English	8,950
4–8 Jun 2028	5-day classroom	Cairo	Arabic	4,750
3–14 Jul 2028	10-day online	Live online	English	5,450
16–20 Oct 2028	5-day classroom	Casablanca	Arabic	4,750
9–20 Apr 2029	10-day classroom	Amsterdam	English	8,950

Dates	Format	City	Language	Fee (USD)
11–15 Jun 2029	5-day classroom	Abu Dhabi	English	4,750
2–6 Jul 2029	5-day online	Live online	Arabic	2,950
10–14 Sep 2029	5-day classroom	Vienna	English	4,750
11–15 Mar 2030	5-day classroom	Paris	English	4,750
8–19 Apr 2030	10-day online	Live online	English	5,450
20–31 May 2030	10-day classroom	Abu Dhabi	English	8,950
7–11 Oct 2030	5-day classroom	Dubai	English	4,750

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