



Inspection, Welding & NDT

Welding Technology & Metallurgy

تكنولوجيا اللحام وعلم المعادن

Duration

5 or 10 days

Language

English or Arabic

Formats

Classroom, online, in-house

Hours

35 / 70

Overview

Welding Technology & Metallurgy is part of the Inspection, Welding & NDT track at Garnet Global Training Center. Inspection and welding programs aligned with international codes, from technician to lead inspector. The course is taught in English or Arabic as a 5-day or 10-day program, in classrooms in cities such as Dubai, Riyadh, Cairo, London and Istanbul, or live online, and it can be delivered in-house with examples and exercises built around your own operations.

What you will be able to do

- Explain the principles, terminology and standards that govern Welding Technology & Metallurgy.
- Apply proven methods and tools to real situations from your own workplace.
- Analyse performance gaps, risks and root causes, and choose the right response.
- Measure results with practical indicators and report them clearly to management.
- Leave with a personal action plan you can start using the following week.

Who should attend

Inspectors, welding engineers and supervisors, NDT technicians and QA/QC staff.

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: www.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 Foundations of Welding Technology & Metallurgy

- Scope, terminology and governing standards
- Codes: ASME, API, AWS

Day 2 Methods and tools

- Welding processes and metallurgy
- NDT methods and acceptance criteria

Day 3 Application and case studies

- Inspection planning
- Reports and documentation

Day 4 Performance, risk and compliance

- Defect assessment
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Hands-on workshop on a workplace challenge
- Final assessment and personal action plan

10-day outline

Day 1 Foundations of Welding Technology & Metallurgy

- Scope, terminology and governing standards
- Codes: ASME, API, AWS

Day 2 Methods and tools

- Welding processes and metallurgy
- NDT methods and acceptance criteria

Day 3 Application and case studies

- Inspection planning
- Reports and documentation

Day 4 Performance, risk and compliance

- Defect assessment
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Hands-on workshop on a workplace challenge
- Final assessment and personal action plan

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
- 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)
10–14 May 2027	5-day classroom	Dubai	Arabic	4,750
12–16 Sep 2027	5-day classroom	Manama	Arabic	4,750
11–22 Oct 2027	10-day online	Live online	Arabic	5,450
7–18 Nov 2027	10-day classroom	Riyadh	English	8,950
6–10 Dec 2027	5-day online	Live online	English	2,950
21 Feb – 3 Mar 2028	10-day classroom	Dubai	English	8,950
11–15 Jun 2028	5-day classroom	Cairo	Arabic	4,750
3–7 Jul 2028	5-day online	Live online	Arabic	2,950
21 Aug – 1 Sep 2028	10-day online	Live online	Arabic	5,450
16–20 Oct 2028	5-day classroom	Istanbul	English	4,750

Dates	Format	City	Language	Fee (USD)
9–20 Apr 2029	10-day classroom	Amsterdam	English	8,950
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
1–12 Oct 2029	10-day online	Live online	Arabic	5,450
4–8 Mar 2030	5-day classroom	Dubai	English	4,750
1–5 Apr 2030	5-day online	Live online	Arabic	2,950
19–30 May 2030	10-day classroom	Muscat	English	8,950
5–16 Aug 2030	10-day online	Live online	Arabic	5,450
21–25 Oct 2030	5-day classroom	Abu Dhabi	English	4,750

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