Garnet
Garnet Global Training Center

GGT-WN-112

Inspection, Welding & NDT **New from 2028**

Robotic & Drone-Based Inspection

الفحص بالروبوتات والطائرات المسيّرة

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

Overview

Robotic & Drone-Based Inspection turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. 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 Robotic & Drone-Based Inspection to real tasks.
- Follow safe, compliant and documented work practices.
- 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.

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 Robotic & Drone-Based Inspection: principles and standards

- Codes: ASME, API, AWS
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Welding processes and metallurgy
- NDT methods and acceptance criteria

Day 3 Diagnosis and problem solving

- Inspection planning
- Regional and international case studies

Day 4 Quality, safety and documentation

- Defect assessment
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Reports and documentation
- Group discussion and peer review

10-day outline

Day 1 Robotic & Drone-Based Inspection: principles and standards

- Codes: ASME, API, AWS
- Common mistakes and how to avoid them

Day 2 Methods and tools in practice

- Welding processes and metallurgy
- NDT methods and acceptance criteria

Day 3 Diagnosis and problem solving

- Inspection planning
- Regional and international case studies

Day 4 Quality, safety and documentation

- Defect assessment
- Checklists and templates to take away

Day 5 Workshop, assessment and action plan

- Reports and documentation
- 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)
21–25 Feb 2028	5-day classroom	Amsterdam	English	4,750
15–26 May 2028	10-day online	Live online	English	5,450
9–13 Jul 2028	5-day classroom	Cairo	Arabic	4,750
3–14 Sep 2028	10-day classroom	Doha	Arabic	8,950
12–16 Mar 2029	5-day online	Live online	Arabic	2,950
8–19 Oct 2029	10-day classroom	Abu Dhabi	English	8,950
18–22 Nov 2029	5-day classroom	Doha	English	4,750
17–21 Dec 2029	5-day classroom	London	English	4,750
18–29 Mar 2030	10-day classroom	Abu Dhabi	English	8,950

Dates	Format	City	Language	Fee (USD)
9–13 Sep 2030	5-day classroom	Paris	English	4,750
21 Oct – 1 Nov 2030	10-day online	Live online	Arabic	5,450
11–15 Nov 2030	5-day classroom	Kuala Lumpur	English	4,750

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