Garnet
Garnet Global Training Center

GGT-WN-105

Inspection, Welding & NDT

Magnetic Particle & Penetrant Testing

الفحص بالجسيمات المغناطيسية والسوائل النافذة

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

Overview

Participants in Magnetic Particle & Penetrant Testing practise the methods, tools and standards they need to perform reliably and solve problems on the job. 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 Magnetic Particle & Penetrant Testing to real tasks.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.

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 Magnetic Particle & Penetrant Testing: principles and standards

- NDT methods and acceptance criteria
- Measurement and reporting

Day 2 Methods and tools in practice

- Inspection planning
- Defect assessment

Day 3 Diagnosis and problem solving

- Reports and documentation
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

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

Day 5 Workshop, assessment and action plan

- Welding processes and metallurgy
- Regional and international case studies

10-day outline

Day 1 Magnetic Particle & Penetrant Testing: principles and standards

- NDT methods and acceptance criteria
- Measurement and reporting

Day 2 Methods and tools in practice

- Inspection planning
- Defect assessment

Day 3 Diagnosis and problem solving

- Reports and documentation
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

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

Day 5 Workshop, assessment and action plan

- Welding processes and metallurgy
- Regional and international case studies

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Checklists and templates to take away

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
- Group discussion and peer review

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)
8–12 Feb 2027	5-day classroom	Dubai	English	4,750
14–18 Jun 2027	5-day online	Live online	English	2,950
12–23 Jul 2027	10-day classroom	Geneva	English	8,950
14–18 Nov 2027	5-day classroom	Muscat	English	4,750
10–14 Jan 2028	5-day classroom	Dubai	English	4,750
12–23 Mar 2028	10-day classroom	Manama	English	8,950
15–19 Oct 2028	5-day classroom	Cairo	English	4,750
20 Nov – 1 Dec 2028	10-day online	Live online	Arabic	5,450
12–16 Feb 2029	5-day online	Live online	English	2,950

Dates	Format	City	Language	Fee (USD)
15–19 Apr 2029	5-day classroom	Jeddah	Arabic	4,750
14–25 May 2029	10-day classroom	Abu Dhabi	English	8,950
5–9 Nov 2029	5-day classroom	Istanbul	English	4,750
14–25 Jan 2030	10-day online	Live online	English	5,450
12–23 May 2030	10-day classroom	Cairo	Arabic	8,950
15–19 Sep 2030	5-day classroom	Muscat	English	4,750
18–22 Nov 2030	5-day classroom	Abu Dhabi	English	4,750

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