Garnet
Garnet Global Training Center

GGT-WN-127

Inspection, Welding & NDT

Risk-Based Inspection to API 580/581

الفحص المبني على المخاطر وفق API 580/581

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

Overview

Risk-Based Inspection to API 580/581 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. 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 Risk-Based Inspection to API 580/581 to real tasks.
- Diagnose common problems and identify root causes.
- 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.

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 Risk-Based Inspection to API 580/581: principles and standards

- Inspection planning
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Defect assessment
- Reports and documentation

Day 3 Diagnosis and problem solving

- Codes: ASME, API, AWS
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Welding processes and metallurgy
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- NDT methods and acceptance criteria
- Hands-on workshop on a workplace challenge

10-day outline

Day 1 Risk-Based Inspection to API 580/581: principles and standards

- Inspection planning
- Checklists and templates to take away

Day 2 Methods and tools in practice

- Defect assessment
- Reports and documentation

Day 3 Diagnosis and problem solving

- Codes: ASME, API, AWS
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Welding processes and metallurgy
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- NDT methods and acceptance criteria
- Hands-on workshop on a workplace challenge

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
- Regional and 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)
1–5 Mar 2027	5-day online	Live online	English	2,950
13–24 Jun 2027	10-day classroom	Riyadh	English	8,950
5–9 Jul 2027	5-day classroom	Singapore	English	4,750
14–18 Nov 2027	5-day classroom	Kuwait City	Arabic	4,750
14–25 Feb 2028	10-day classroom	London	English	8,950
20–24 Mar 2028	5-day classroom	Abu Dhabi	English	4,750
7–11 May 2028	5-day classroom	Kuwait City	Arabic	4,750
20 Nov – 1 Dec 2028	10-day online	Live online	English	5,450
21–25 May 2029	5-day classroom	Abu Dhabi	Arabic	4,750

Dates	Format	City	Language	Fee (USD)
11–15 Jun 2029	5-day online	Live online	English	2,950
12–23 Nov 2029	10-day classroom	London	English	8,950
2–6 Dec 2029	5-day classroom	Riyadh	English	4,750
7–11 Apr 2030	5-day classroom	Manama	Arabic	4,750
1–12 Jul 2030	10-day online	Live online	Arabic	5,450
2–6 Sep 2030	5-day classroom	London	English	4,750
11–22 Nov 2030	10-day classroom	Istanbul	English	8,950

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