Garnet
Garnet Global Training Center

GGT-NR-101

Nuclear & Radiation Safety

Radiation Protection Fundamentals

أساسيات الوقاية من الإشعاع

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

Overview

Radiation Protection Fundamentals gives newcomers and non-specialists a clear, practical grounding: the core concepts, the vocabulary used on the job and the first tools to apply them. Safe use of radiation sources in industry, medicine and energy, aligned with international safety standards. Choose 5 or 10 days, classroom or live online, English or Arabic; organisations can also run it in-house and adapt the examples to their own work.

What you will be able to do

- Explain the key concepts, terms and standards of Radiation Protection Fundamentals.
- Plan the next steps in your own learning.
- Recognise the main hazards, errors and misconceptions newcomers face.
- Carry out basic tasks correctly using simple checklists and tools.
- Read and use the documents, forms and data common in this field.

Who should attend

Radiation protection officers, industrial radiographers, medical physicists and nuclear sector staff. No prior experience is required; it also suits new hires, graduates and staff moving into this field.

Key topics

- Radiation physics basics
- Dose limits and regulation
- Shielding and monitoring
- Source security
- Emergency planning
- Waste and transport

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

WhatsApp: +971 56 674 7382

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 Introduction to Radiation Protection Fundamentals

- Source security
- Hands-on workshop on a workplace challenge

Day 2 Core concepts and terminology

- Emergency planning
- Waste and transport

Day 3 Basic methods and tools

- Radiation physics basics
- Common mistakes and how to avoid them

Day 4 Working safely and correctly

- Dose limits and regulation
- Regional and international case studies

Day 5 Practical exercises and review

- Shielding and monitoring
- Checklists and templates to take away

10-day outline

Day 1 Introduction to Radiation Protection Fundamentals

- Source security
- Hands-on workshop on a workplace challenge

Day 2 Core concepts and terminology

- Emergency planning
- Waste and transport

Day 3 Basic methods and tools

- Radiation physics basics
- Common mistakes and how to avoid them

Day 4 Working safely and correctly

- Dose limits and regulation
- Regional and international case studies

Day 5 Practical exercises and review

- Shielding and monitoring
- Checklists and templates to take away

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Group discussion and peer review

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
- Measurement and reporting

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 online	Live online	Arabic	2,950
10–14 May 2027	5-day classroom	Paris	English	4,750
8–12 Aug 2027	5-day classroom	Cairo	English	4,750
8–19 Nov 2027	10-day classroom	Abu Dhabi	Arabic	8,950
17–28 Jan 2028	10-day classroom	Kuala Lumpur	English	8,950
16–20 Apr 2028	5-day classroom	Kuwait City	English	4,750
7–11 May 2028	5-day classroom	Jeddah	English	4,750
10–21 Jul 2028	10-day online	Live online	Arabic	5,450
14–18 May 2029	5-day classroom	Dubai	Arabic	4,750

Dates	Format	City	Language	Fee (USD)
8–12 Jul 2029	5-day classroom	Kuwait City	English	4,750
17–21 Sep 2029	5-day online	Live online	Arabic	2,950
1–12 Oct 2029	10-day classroom	London	English	8,950
11–15 Feb 2030	5-day classroom	Barcelona	English	4,750
5–16 May 2030	10-day classroom	Riyadh	English	8,950
5–16 Aug 2030	10-day online	Live online	Arabic	5,450
9–13 Dec 2030	5-day classroom	Geneva	English	4,750

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