

Al-Thurya TECHNICAL TRAINING INSTITUTE

Kuwait 2025



PRESENTS

**Radiation Protection in Radiological
Field
(Dental & General Practices)**

09-10/12/2025

Crowne Plaza Hotel - Farwaniya

Your speakers:

- **Eng. Mohamed Shaaban**

Senior Radiation Physics Specialist Radiation
Protection Department, Ministry of Health.

- **Dr. Meshari Al-Nuaimi**

President of Kuwait Association of Medical
Physics & Head of Radiation Physics
Department, Kuwait Cancer Control Center,
Ministry of Health.

- **Mr. Salem Al-Azmi**

Head Of Radiological Specialists, Radiation
Protection Department MOH.

- **Eng. Salah Al-Zannen**

Senior CT and radiology specialist Al-Sabah
Hospital, Ministry of Health.

- **Contact:**

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Course objective:

After This training all trainees should be familiarly with:

1. Main concepts of Radiation Protection.
2. Rules and regulation (local and international).
3. Radiation limits and levels.
4. Biological Effects of Ionizing Radiation.
5. Justification and Appropriate Use of Radiation.
6. Radiation dose reduction.
7. Quality Assurance in Dental Radiography.
8. Risk Communication in Digital Clinical Radiology and The Future of Radiation Protection
9. A.I in Clinical Radiology

Basic Principles of Radiation protection:

Justification of practice: no practice should be adopted unless its introduction produces a positive net benefit greater than its harm.

Optimization of practice: all exposures to ionizing Radiations should be kept As Low as Reasonably Achievable (ALARA principle)

Dose limits and dose constraints: the exposures to individuals resulting from combination of all relevant practices should be subject to dose limits and dose constraints.

Dose Limits for Planned Exposure Situations:

Type Of limit	Occupational Exposure	Public	Apprentices
Effective dose (E)	20 mSv/yr (5yrs avg) *100 mSv/5yrs 50 mSv: Single Yr	1 mSv/yr (at least 5 Yrs avg)	6 mSv/yr
Equivalent dose to lens of the eye (H ₁)	20 mSv/Yr (5yrs avg) *100 mSv/5yrs 50 mSv: Single Yr	15 mSv/Yr	20 mSv/Yr
Equivalent dose to hands, feet & skin (H ₂)	500 mSv/Yr	50 mSv/Yr	150 mSv/Yr

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Training Program

(Day-1)

04:00 – 04:45 Laws and Regulations of radiation
Protection in Kuwait.

(Mr. Salem Al-Azmi)

04:45 – 05:30 General Principles of Radiation
Protection.

(Mr. Salem Al-Azmi)

05:30 – 05:45 Coffee Break

05:45 – 06:30 International System of Radiation
Protection in Medicine.

(Eng. Mohamed Shaaban)

06:30 – 07:15 Radiation Quantities and units
in Medicine.

(Eng. Mohamed Shaaban)

07:15 – 07:30 Coffee Break

07:30 – 08:15 Quality Control of General and
Dental Radiography.

(Eng. Salah Al-Zannen)

08:15 – 09:00 Justification and Appropriate Use
of Ionizing Radiation in medicine.

(Eng. Salah Al-Zannen)

(Day-2)

04:00 – 04:45 Risk Communication in Digital
Clinical Radiology.

(Eng. Mohamed Shaaban)

04:45 – 05:30 What AI Can Do for Radiology
(Eng. Mohamed Shaaban)

05:30 05:45 Coffee Break

5:45 - 06:30 Challenges of The New Era of Medical
Imaging

(Eng. Mohamed Shaaban)

06:30 – 07:15 Biological Effects of Ionizing Radiation.

(Dr. Meshari Al-Nuaimi)

07:15 – 07:30 Coffee Break

07:30 – 08:15 Optimization of Protection in Pregnancy
and Pediatrics.

(Dr. Meshari Al-Nuaimi)

08:15 – 09:00 Optimization of Protection in General
and Dental Radiography

(Eng. Salah Al-Zannen)

09:00 – 09:30 Interactive Session & Course Evaluation.

(Dr. Meshari Al-Nuaimi)