

## “RADIATION PROTECTION OFFICER” TRAINING COURSE

**Next RPO Training:**  
Every month July to Dec 2022  
in Dubai (Online), UAE.



Course Material & Training In:

Arabic & English

Separate Batches

## WARNING

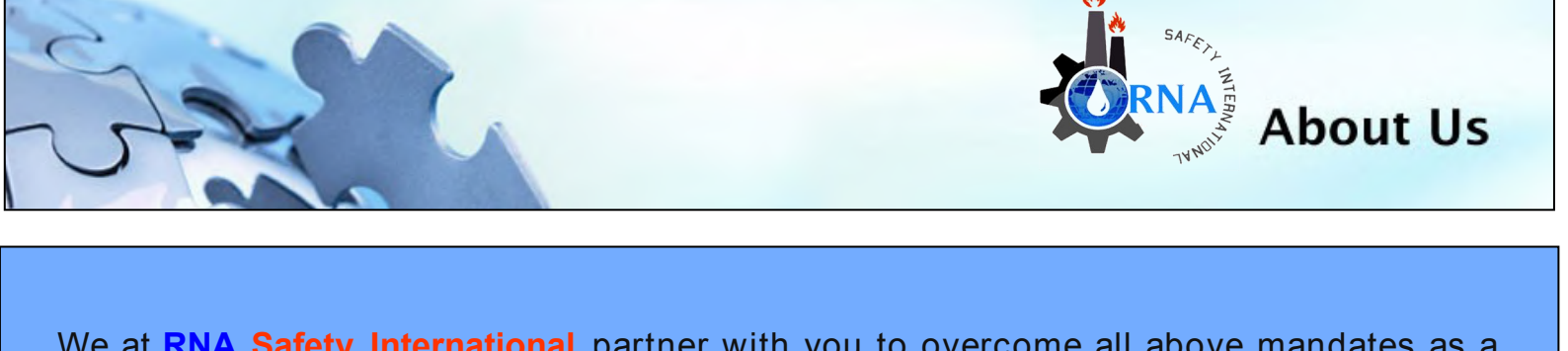
1. IS YOUR STAFF PROTECTED FROM RADIATION?
2. DOES YOUR STAFF WORK ON 'ALARA' PRINCIPLE FOR LIMITING EXPOSURE TO RADIATIONS.
3. DOES YOUR ORGANIZATION OPERATE ON GUIDELINES LED DOWN BY LOCAL HEALTH AUTHORITY AND OFFICIAL BODIES REGULATIONS.

IS THE ANSWER TO ABOVE 'CAUTION' WARNING IS **NO** ?  
WE AT RNA SAFETY INTERNATIONAL HAVE DESIGNED "**SOLUTION**" FOR YOU.



### COURSE TRACEABILITY:

[Approved Training Institute by KHDA](#)



We at **RNA Safety International** partner with you to overcome all above mandates as a one stop solution provider.

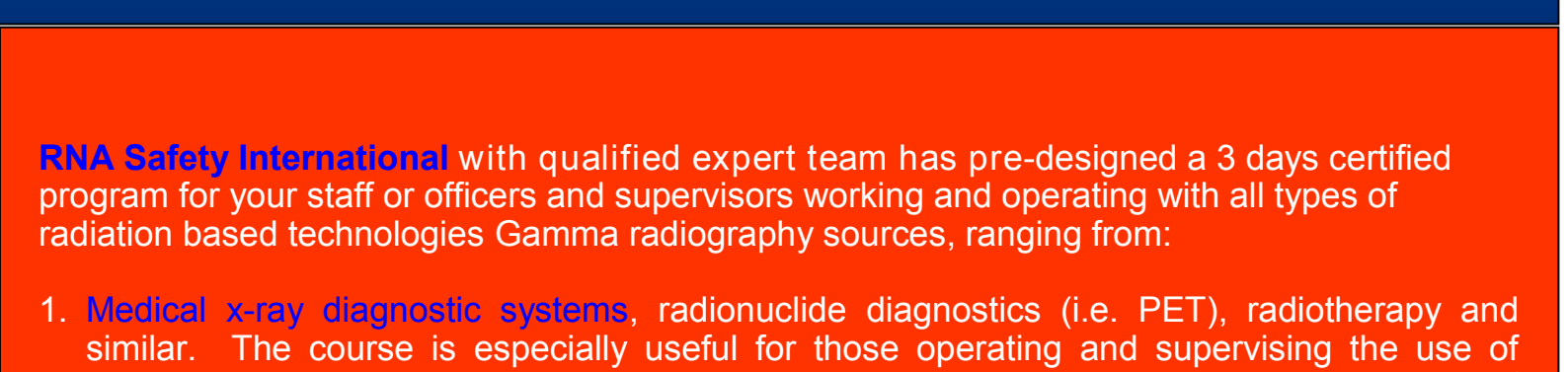
RNA Safety International with a VISION to be the most admired health, safety & environmental certified training provider in Middle East, designs tailor made modules so as to enable you operate with utmost precision as per norms and guidelines mandated by official bodies.

Our VALUE system mirrors us the best i.e.:

Reliable  
Newness  
Assertive

RNA headquarter at Dubai, UAE with a niche in health, safety and environmental (HSE) certified trainings and charter consultancy since four years is functioning best matching to **official standards and regulations**.

Visit our website [www.rnasafetyinternational.com](http://www.rnasafetyinternational.com)



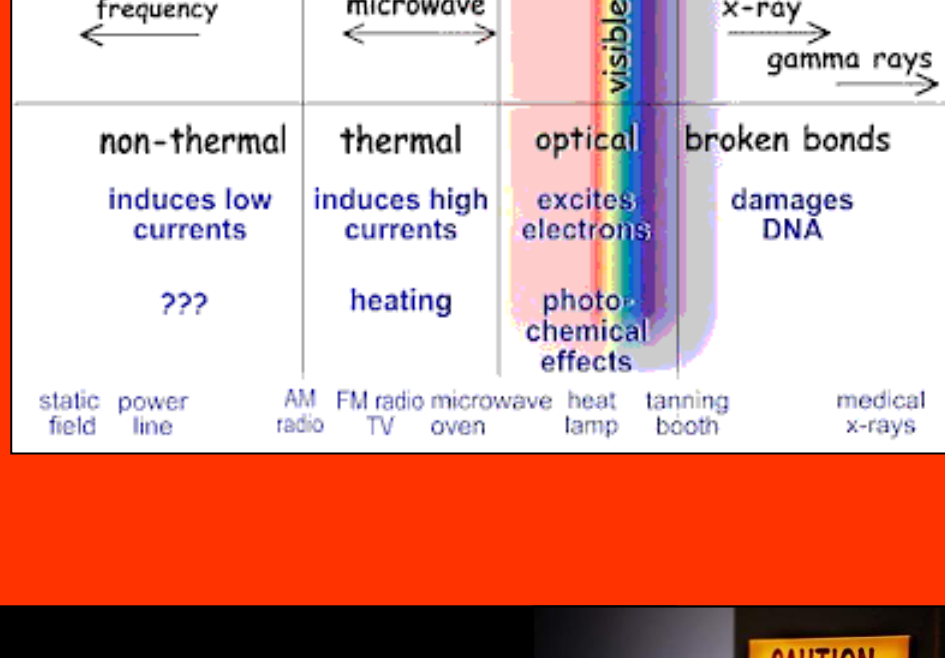
## ABOUT THE COURSE

**RNA Safety International** with qualified expert team has pre-designed a 3 days certified program for your staff or officers and supervisors working and operating with all types of radiation based technologies Gamma radiography sources, ranging from:

1. **Medical x-ray diagnostic systems**, radionuclide diagnostics (i.e. PET), radiotherapy and similar. The course is especially useful for those operating and supervising the use of medical equipment in hospitals, clinics and other medical related areas. A range of equipment types and techniques are examined including x-ray (film, fluoroscopy, mammography, CT), radionuclide based (PET, Tc-99m, In-111) and radiotherapy (high energy accelerators and radioactive sources). The course examines the safety rather than the clinician aspects of medical uses of ionizing radiation.
2. **Radiation based technologies Gamma** emitting sources of Cs-137, Co-60, Ba-133, Am-241 are used in oil and gas well logging, in Multiphase Flow Meter (MPFM) technology at oil and gas production facilities and in transmitted level gauges for tanks in refineries. X-ray Fluorescence (XRF) is used for sulphur gauges in laboratories. Cd-109 and Fe-59 are used in alloy analyzers in refineries and workshops. Neutron sources like Cf-252 or 241Am-Be are used in density gauges and also in well logging. Ir-192 and Co-60 are routinely used in industrial radiography. Bi-113 and X-ray machines are used routinely in industrial security.
3. **Industrial radiation** based technologies Gamma radiography sources (Ir-192, Co-60, Se-75, Yb-169, Tm-170), sealed sources, pipe crawler equipment used to radiograph welds on pipelines, underwater radiography equipment, projection type exposure device, S-bend type exposure device, shutter type exposure device, portable, mobile and fixed exposure devices.
4. **Security x-ray systems**, radionuclide based trace analysis applications (i.e. explosive and narcotic detection) and similar. A range of equipment types are examined including high energy systems (linear accelerators), and narcotic and explosive testing systems (e.g. Ni-63 applications). The course provides the necessary information for those involved in the design, manufacture, supply, installation, critical examination and maintenance for such systems.
5. **Dental X-ray** (intraoral, panoramic, cephalometric and cone-beam CT). The x-rays produced by an x-ray machine are a form of electromagnetic radiation. Unlike microwaves, radio waves, and visible light, x-rays are ionizing radiation, which is capable of removing electrons from atoms and damaging living cells and the DNA of those cells.

How staff exposure to be kept at the minimum and maximize benefits out of radiation based technologies by applying ALARA concept and radiation protection principals.

1. Justification
2. Optimization
3. Dose Limitation



Training course outline or syllabus is attached.

## COURSE DETAILS

TRAINING INSTRUCTOR  
CERTIFICATE VALIDITY  
COURSE DATES  
TRAINING METHODOLOGY

OBJECTIVES  
CREDENTIALS

**Title** : Radiation Protection Officer Training Course

**Code** : RNA/RPO/2020-21

**Duration** : 3 Days

### Dates:

- Every month July to December, 2022 (bookings & registrations on)

**Validity** : 3 years from the date of certificate issuance.

### Credentials:

- We are an approved 'Training Institute' by KHDA, UAE for conducting this RPO training
- course & have an 'Official Permit' issued by them for our Institute.
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### Objective:

- Implement mandated rules & regulations on radiation safety and protection with in depth understanding on characteristics of ionizing radiation & radioactive decay mechanisms.
- Execute ALARA program on monitoring exposures and recognize the dose limitations

### Who should attend :

- Candidates wanting to be Radiation Safety Officer / Supervisor.
- People dealing with various x-ray machines etc.

### Instructor :

- Radiation Protection Adviser,  
Dr. Md. Aref, Qualified Expert

Listed by FANR - QE - 13

### Unique Training Methodology:

- Knowledge implementation by subject matter expert via lectures and course specific real time examples.
- Two way workshop modus operandi and group discussion for faster technical know-how.
- Individual voting table meters to quiz up the days learning at the end of every session.
- Sophisticated multi media tools for visual learning's and virtual on the job experience.

### Fees:

- Individual registration
- Group booking
- Corporate tie-ups

(For more details reply or call at below contact)

**Other Facilities:** Logistic support like accommodation and other guidance information, on request.

## WHAT YOU NEED TO KNOW

READ MORE  
GUIDELINES FROM INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA)  
AND  
FEDERAL AUTHORITY FOR NUCLEAR REGULATION (FANR)

### International Atomic Energy Agency (IAEA) :

<http://www.pub.iaea.org> - DIAGNOSTIC-IMAGING-SERVICES

<http://www.pub.iaea.org> - OIL & GAS

<http://www.pub.iaea.org> - INDUSTRIAL RADIOGRAPHY

<http://www.pub.iaea.org> - SECURITY X-RAYS

Above is the link from IAEA official website which specifies Radiation in all sector of industries.

### Federal Authority for Nuclear Regulation (FANR) :

<http://www.fanr.gov.ae> - NUCLEAR MEDICINE

<http://www.fanr.gov.ae> - RADIOTHERAPY

<http://www.fanr.gov.ae> - DIAGNOSTIC-RADIOLOGY

<http://www.fanr.gov.ae> - INDUSTRIAL-RADIOGRAPHY

<http://www.fanr.gov.ae> - SECURITY X-RAY SCANNERS