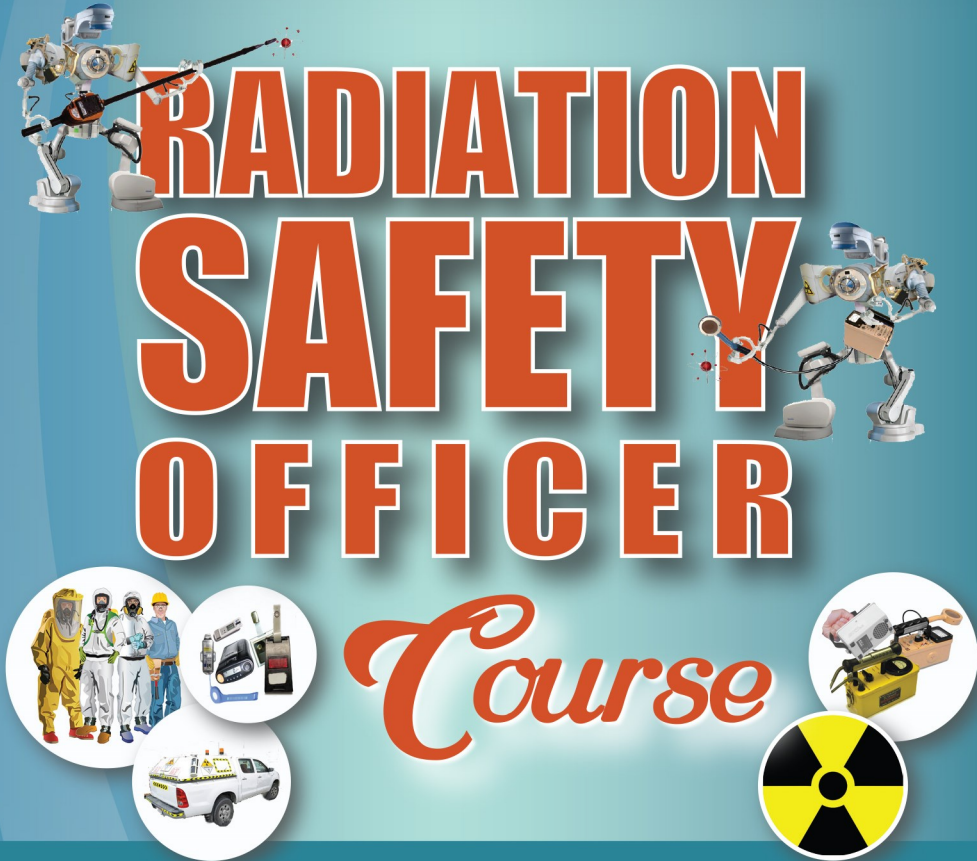


# 2017 RADIATION IN MEDICINE SYMPOSIUM & WORKSHOPS

KING FAISAL SPECIALIST HOSPITAL & RESEARCH CENTRE, RIYADH, SAUDI ARABIA



مستشفى الملك فيصل التخصصي ومركز الأبحاث  
King Faisal Specialist Hospital & Research Centre  
مؤسسة عامة Gen. Org.

For more information, please contact us at:  
Research Centre Training and Education Office  
Tel. : (011) 464 7272 Ext.: 32971 - 32916; Mobile : 0505656033  
Lsultan@kfshrc.edu.sa

SUNDAY - THURSDAY / 12 - 16 FEBRUARY 2017  
VENUE: POSTGRADUATE CENTER,  
KFSH&RC, RIYADH, SAUDI ARABIA

For more information, please contact Ms. Josephine Veridiano, Biomedical Physics Department, MBC-03  
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TRAINING &  
EDUCATION  
OFFICE



**DAY 3, Tuesday, 14 February 2017; 08:00 - 17:00****SESSION I**

<b>8:00 - 09:00</b>	<b>60</b>	Transportation, Storage and Safe Handling of Radioactive Waste
<b>09:00 - 10:00</b>	<b>60</b>	Emergency Response Planning
<b>10:00 - 10:15</b>	<b>15</b>	<b>MORNING BREAK</b>

**SESSION II**

<b>10:15 - 11:00</b>	<b>45</b>	Radiation Protection in Nuclear Medicine
<b>11:00 - 12:00</b>	<b>60</b>	Radiation Protection in Diagnostic Radiology
<b>12:00 - 13:00</b>	<b>60</b>	<b>PRAYER &amp; LUNCH BREAK</b>

**SESSION III**

<b>13:00 - 14:00</b>	<b>60</b>	Radiation Protection in Radiotherapy
<b>14:00 - 14:45</b>	<b>45</b>	Radiation Protection in Industrial Application of Radiation
<b>14:45 - 15:30</b>	<b>45</b>	Problem-Solving Session II
<b>15:30 - 16:00</b>	<b>30</b>	<b>PRAYER &amp; AFTERNOON BREAK</b>

**SESSION IV**

<b>16:00 - 17:00</b>	<b>60</b>	Problem-Solving Session III
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**DAY 4, Wednesday, 15 February 2017; 08:00 - 17:00****GROUP A      GROUP B      GROUP C      GROUP D****SESSION I**

<b>8:00 - 10:00</b>	<b>120</b>	WS1: Detection & Measurement	WS2: RSO Duties	WS3: I-131 Therapy &	Problem Solving
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<b>10:00 - 10:15</b>	<b>15</b>	<b>MORNING BREAK</b>			
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**SESSION II**

<b>10:15 - 12:00</b>	<b>105</b>	Problem Solving	WS1: Detection & Measurement	WS2: RSO Duties	WS3: I-131 Therapy & Waste
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<b>12:00 - 13:00</b>	<b>60</b>	<b>PRAYER &amp; LUNCH BREAK</b>			
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**SESSION III**

<b>13:00 - 14:40</b>	<b>100</b>	WS3: I-131 Therapy & Waste	Problem Solving	WS1: Detection & Measurement	WS2: RSO Duties
<b>14:40 - 15:30</b>	<b>100</b>	WS2: RSO Duties	WS3: I-131 Therapy & Waste	Problem Solving	WS1: Detection & Measurement

<b>15:30 - 16:00</b>	<b>30</b>	<b>PRAYER &amp; AFTERNOON BREAK</b>			
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**SESSION IV**

<b>16:00 - 17:00</b>	<b>60</b>	WS2: RSO Duties	WS3: I-131 Therapy & Waste	Problem Solving	WS1: Detection & Measurement
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**DAY 5, Thursday, 16 February 2017; 08:00 - 12:00****SESSION I**

<b>8:00 - 09:00</b>	<b>60</b>	Problem-Solving Session V
<b>09:00 - 10:00</b>	<b>60</b>	Problem-Solving Session VI
<b>10:00 - 10:15</b>	<b>15</b>	<b>MORNING BREAK</b>

**SESSION II**

<b>10:15 - 11:00</b>	<b>60</b>	Evaluation Test
<b>11:00 - 12:00</b>	<b>60</b>	Closing Ceremony
<b>12:00 - 13:00</b>	<b>60</b>	<b>PRAYER &amp; LUNCH BREAK &amp; AL-THUMAMA VISIT</b>

# Radiation Safety Officer Course

## Description

Radiation Safety Officer Training is designed to provide the technical and practical information needed to prepare a person to be an effective radiation safety officer. It will also be useful as general introductory training for anyone who works with radioactive materials or who may be required to be an alternate radiation safety officer. Some prior knowledge of algebra and science is necessary to get the most benefit from the course.

In this radiation safety training course, you will explore the characteristics of ionizing radiation, develop an understanding of the units of radiation dose and quantities, gain hands-on experience using radiation detection instrumentation, and learn about the biological hazards of exposure to radiation.

Whether you aspire to a radiation safety officer position or need an improved understanding of health physics, this course prepares you to meet radiation protection challenges.

## Who Should Participate

Radiation Safety Officer Training was designed for professionals with radiation protection responsibilities in biotechnology, university, hospital, or other laboratory settings. Ideal participants include:

- ◆ Radiation safety officers
- ◆ Health and medical physicists
- ◆ Nuclear medicine and medical imaging professionals
- ◆ Radiologic technologists and radiologists
- ◆ Environmental health and safety and industrial hygiene professionals
- ◆ Biologists, chemists, pharmacists, and other researchers using radionuclides
- ◆ Facilities managers at laboratories utilizing radioactive materials

## Training Objective

- ◆ Acquire the knowledge of basic concepts and principles of ionizing radiation and its instrumentation
- ◆ Gain a clear understanding, skill, and attitude on radiation protection practices
- ◆ Understand the national and international standards and regulations on radiation protection

## Speakers & Instructors



**Mahmoud Ahmed, PGDip, RPE**  
Health Physicist,  
Bio-Medical Physics Section,  
Oncology Department  
KFSH&RC-Jeddah, KSA



**Ibrahim Al-Anazi, MSc**  
Health Physicist II,  
Biomedical Physics  
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**Ahnaf Arafah, MSc**  
Assistant Head,  
Radiology Department  
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**Mehenna Arib, PhD**  
Chief Health Physicist,  
Biomedical Physics  
Department  
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**IBRAHIM AL-GAIN, MSc**  
Health Physicist III,  
Biomedical Physics  
Department,  
KFSH&RC-Riyadh, KSA



**Mohamed Abdelsattar Bayoumi, PhD, FIPEM**  
Senior Specialist of Medical  
Physics, Nuclear Medicine  
Department, King Abdulaziz  
Specialist Hospital  
Sakaka Al Jouf, Saudi Arabia



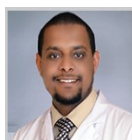
**Refaat Al-Mazrou, MSc**  
Deputy Chairman,  
Biomedical Physics  
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**Fareed Mayhoub, MSc**  
Head, Health Physics,  
Radiation Safety Officer,  
Medical Physicist  
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**Belal Moftah, PhD**  
Chairman,  
Biomedical Physics  
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**Omar Noor, MSc**  
Health Physicist  
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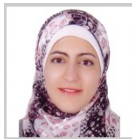
**Talal Salim, B.Eng**  
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**Ghazi Alsbeih, PhD**  
Principal Scientist,  
Biomedical Physics  
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**Abdallah Al Shareef, MSc**  
Section Head, Radiation  
Quality Control  
Executive Administration,  
Radiological health  
Saudi Food & Drug  
Authority, KSA



**Shada Wadi-Ramahi, PhD**  
Chief Medical Physicist,  
Biomedical Physics  
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KFSH&RC-Riyadh, KSA

## Radiation Safety Officer Course Program Schedule

DAY 1, Sunday, 12 February 2017; 08:00 - 17:00		
Time	Mins	
07:30 – 8:00	30	Registration & Morning Coffee
<b>SESSION I</b>		
8:00 - 09:00	60	RSO Course Opening Ceremony & Evaluation Exam
09:00 - 10:00	60	Structure of the Matter & Radiation Sources
10:00 - 10:15	15	<b>MORNING BREAK</b>
<b>SESSION II</b>		
10:15 - 11:15	60	Radioactivity
11:15 - 12:00	45	Interaction of Radiation with Matter I
12:00 - 13:00	60	<b>PRAYER &amp; LUNCH BREAK</b>
<b>SESSION III</b>		
13:00 - 13:50	50	Interaction of Radiation with Matter II
13:50 - 14:40	50	Radiation Quantities and Units
14:40 - 15:30	50	Biological Effect of Radiation
15:30 - 16:00	30	<b>PRAYER &amp; AFTERNOON BREAK</b>
<b>SESSION IV</b>		
16:00 - 17:00	60	Problem-Solving Session I
DAY 2, Monday, 13 February 2017; 08:00 - 17:00		
Time	Mins	
<b>SESSION I</b>		
8:00 - 09:00	60	Radiation Detection and Measurements I
09:00 - 10:00	60	Principle of Radiation Protection
10:00 - 10:15	15	<b>MORNING BREAK</b>
<b>SESSION II</b>		
10:15 - 11:00	45	2017 Radiation in Medicine Opening Ceremony
11:00 - 12:00	60	Protection from External Radiation Hazard
12:00 - 13:00	60	<b>PRAYER &amp; LUNCH BREAK</b>
<b>SESSION III</b>		
13:00 - 13:50	50	Protection from Internal Radiation Hazard
13:50 - 14:40	50	Personal Dosimetry
14:40 - 15:30	50	Use of Radiation Monitoring Instruments
15:30 - 16:00	30	<b>PRAYER &amp; AFTERNOON BREAK</b>
<b>SESSION IV</b>		
16:00 - 17:00	60	Ionizing Radiation Legislation and Regulations