



## INSC Project MC3.01/13

EC Contract N° NSI/2014/343-969

“Training and Tutoring for experts of the NRAs and their TSOs for developing or strengthening their regulatory and technical capabilities”

## Regional Training Course

### Radiation Protection System at Nuclear Facilities

organized by ITER-Consult in cooperation with ANNuR

Hammamet - April 20 – 24, 2015

### Course Objective

The regional training course provides an overview of the radiation protection principles requirements and practices to be applied in nuclear installations from the point of view of the radiation safety of workers, public and environment. It includes presentations and discussions on the following topics:

- Radiological safety objectives, radiation protection basic principles, ALARA approach and safety requirements will be presented and discussed;
- Conception of the radiation protection system and related monitoring and program;
- Provisions to be taken at design level of nuclear facility in terms of conception, design of SSC and technological processes to ensure effective radiation protection;
- Classification of exposed workers, dosimetry services, administrative requirements and work procedures, radiation monitoring;
- Radioactive source in medical application and radioprotection of patients;
- Requirements for the control of the radioactive releases from a nuclear installation under normal operating conditions will be also considered;
- Role and responsibility of the nuclear regulator, authorization-licensing process, safety evaluation and inspection from the regulatory authority.

Two practical application sessions are included in the training program.



resources & energy

## Course Daily Program

Monday, 20 <sup>th</sup> April 2015	
9.00 – 12.45	Registration
	Welcome (ANNuR, ITER) Organizational aspects, Training objective, Training program
	ANNuR Network and activity in Radiation Protection- <i>D. Mosbah</i>
	EU infrastructure for Nuclear and Radiation Safety - <i>A. Madonna</i>
12.45 – 14.00	Lunch
14.00 – 17.30	Interaction of radiation with matter and radiation detection techniques - <i>R. Remetti</i>
	Health effects of ionizing radiations - <i>R. Remetti</i>
	Assessment of Internal and External Exposures - <i>R. Remetti</i>

Tuesday, 21 <sup>st</sup> April 2015	
9.00 – 12.45	Use of radioactive sources in research, industrial and medical field - <i>K. Slavcheva, R. Remetti</i>
	Radiation protection of patients - <i>R. Remetti</i>
	Radioprotection of patients in Tunisia - <i>A. Hammou</i>
	Requirements and experience for management of Radioactive sources - <i>K. Slavcheva</i>
12.45 – 14.00	Lunch
14.00 – 17.30	Radiation Protection in Nuclear facilities – <i>C. Osimani</i>
	Requirements & standards for radiation protection of Workers, Public and Environment (in normal and emergency) - <i>C. Osimani</i>
	Occupational exposure and categorization of workers in a Nuclear Facility - <i>C. Osimani</i>

Wednesday, 22 <sup>nd</sup> April 2015	
9.00 – 12.45	Regulatory inspections for Radiation Protection - <i>C. Osimani</i>
	Regulatory inspection for Radiation Protection in a Nuclear Facility - <i>M. Bqoor</i>
	Requirements for the Regulator's Inspector and interaction with the licensee – <i>R. Ranieri, A. Madonna</i>
12.45 – 14.00	Lunch
14.00 – 17.30	<b>Practical application n. 1 - "RP in medical application"</b>

Thursday, 23 <sup>rd</sup> April 2015	
9.00 – 12.45	Licensing process and regulatory review for a Radiation Protection System - <i>C. Salierno</i>
	Authorization & control for use of Radioactive sources in medical and industrial application - <i>F. Zambardi, R. Remetti</i>
	Operational protection against Radiation exposure - <i>A. Hammou</i>
12.45 – 14.00	Lunch
14.00 – 17.30	<b>Practical application n. 2 - "RP system in a NF"</b>

Friday, 24 <sup>th</sup> April 2015	
9.00 – 12.45	EU Directive 2013/59 on BSS - Role of Radiation protection Expert (RPE) and Radiation Protection officer (RPO) - <i>R. Remetti</i>
	Medical physics experts - <i>G. Trenta</i>
	Dosimetry services - <i>C. Salierno, R. Remetti</i>
12.45 – 14.00	Lunch
14.00 – 17.30	Course summary
	Course questionnaire
	Opinion from trainees
	Training Minutes (ITER, ANNuR)