



## EC 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”

## Training Course

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### Nuclear Materials Protection, Accounting, Control and Security

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**Budapest: January 15 – 19, 2018**

**ART'OTEL**

Street Bem rkp. 16-19, 1011 Budapest, Hungary

Telephone: +36 1 487 9487

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### Course Objective

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The training course will describe and discuss the objective and key aspects of nuclear security and of protection of nuclear material. The conception and requirements of the physical protection (PP) system (prevention, detection and response) for nuclear facilities, nuclear material and radioactive substances during their operation, management and transport will be presented and discussed together with prevention of malicious act, management of malicious act and mitigation of consequences.

The course highlights the legal requirements for nuclear security, the International legal binding instrument (conventions and protocol) and the responsibilities of the operator, the state and the regulator. Control and accounting of nuclear material will be an important part of covered topics together with EU and IAEA requirements and controls. The program includes also the presentation and discussion of: classification, registration and control of nuclear material and radioactive substances; transportation of nuclear materials and related responsibilities; safeguard regime and control instrumentation and devices; accounting system of nuclear materials; import and export of radioactive or fissile materials; controls at the national boundaries; regulatory review and inspections.

Practical Application is included in the training programme.



**WorleyParsons**  
resources & energy

## Course Daily Program

Monday, January 15 <sup>th</sup> , 2018	
08.30 - 09.00	Registration
9.00 – 12.30	Welcome, Organizational aspects
	Training objective & programme - A. Madonna (ITER)
	EU infrastructure for Radiation, Nuclear Safety, Safeguards and Security – A. Madonna (ITER)
	Role, functions and responsibilities of the nuclear regulatory authority – A. Madonna (ITER)
12.30 – 13.30	Objectives and approach to nuclear security: prevention, detection and response – I. Gorinov (BNRA)
	Lunch
13.30 – 17.00	Regulatory approach to regulate and control Physical Protection of a NPP – I. Gorinov (BNRA)
	National threat assessment, Design Basis Threat – Á. Vincze (HAEA)

Tuesday, January 16 <sup>th</sup> , 2018	
9.00 – 12.30	Security management measures – Zs. Stefánka (HAEA)
	Protection against unauthorized removal and sabotage – Zs. Stefánka (HAEA)
	Identification of targets and potential consequences – Zs. Stefánka (HAEA)
12.30 – 13.30	Lunch
13.30 – 17.00	International Convention on Physical Protection (CPPNM) and 2005 Amendment – M. Gregoric (ITER)
	International Convention for Suppression of Acts of Nuclear Terrorism (ICSANT) – M. Gregoric (ITER)

Wednesday, January 17 <sup>th</sup> , 2018	
9.00 – 12.30	Protection of sensitive information – Á. Vincze (HAEA)
	Computer security – Á. Vincze (HAEA)
	Diversion of nuclear materials & Acquisition path analysis – Á. Vincze (HAEA)
12.30 – 13.30	Lunch
13.30 – 17.00	Nuclear safeguards objectives, international treaties, role of IAEA and Euratom – E. Földesi (HAEA)
	Contingency planning, security drills and exercises – Zs. Stefánka (HAEA)

Thursday January 18 <sup>th</sup> , 2018	
9.00 – 12.30	State System of Accounting and Control (SSAC) – E. Földesi (HAEA)
	Safeguards verification measures – E. Földesi (HAEA)
	Transport security – T. Katona (HAEA), S. Trivelloni (ISPRA)
12.30 – 13.30	Lunch
13.30 – 17.00	<i>Practical Application on conception of a physical protection system (PPS) of a Nuclear Facility – J. Silye, Zs. Stefánka (HAEA)</i>

Friday, January 19 <sup>th</sup> , 2018	
9.00 – 12.30	Nuclear and dual use items – Zs. Stefánka (HAEA)
	Regulatory needed capacity to oversee security and safeguards – J. Silye (HAEA)
12.30 – 13.30	Lunch
13.30 – 17.00	<i>Course Summary Questionnaire Trainees Opinion Training Minutes Certificates awarding</i>