



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

“Regulation of Uranium Mining”

organized by ITER-Consult in East Europe-Central Asia Region

Thailand, Bangkok – December 13th – 17th, 2016

Grand Mercure Bangkok Fortune Hotel

1 Rachadaphisek Road - Fortune Town – Dindaeng - BANGKOK - THAILAND

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Course Objective

The training course covers different technical and regulatory aspects concerning uranium mining. Topics as uranium natural resources, different kinds of mines, technological processes for mining, milling and management of mining waste and tailings are presented. Uranium mining legislation and international safety requirements are included.

Safety and security requirements, radiation protection and environmental requirements during site exploration, preparation, construction, operation, decommissioning and release from regulatory control are foreseen.

Key issues to be covered in the content of safety documentation to be submitted to NRA for licensing, approval and authorization in all steps of the lifecycle are included.

Occupational safety aspects to be regulated and environmental aspects and radiological impact connected with uranium mine operation and subsequent decommissioning are outlined too. Remediation, long term monitoring and maintenance of closed mines are presented.

A practical application is envisaged during the training activity.



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Course Daily Program

Tuesday 13 th December, 2016	
08.30 – 9.00	Registration & Organizational aspects
9.00 – 13.00	Training objectives & program – A. Madonna (ITER)
	EU infrastructure for radiation protection and nuclear safety – A. Madonna (ITER)
	Role and responsibilities of a Nuclear Regulatory Authority (NRA) – A. Madonna (ITER)
13.00 – 14.00	Key safety aspects linked with U mining activity – K. Horvath (HAEA), A. Madonna (ITER)
	Lunch
14.00– 17.00	Uranium resources bearing materials and NORM – R. Remetti (ITER)
	Different kind of mines: open pit, underground, in situ recovery – R. Remetti (ITER)

Wednesday 14 th December, 2016	
9.00 – 13.00	Technological processes for U extraction and tailings management - R. Remetti (ITER)
	Uranium mining reference legislation and IAEA standards – R. Remetti (ITER)
13.00 – 14.00	Lunch
14.00 – 17.00	Occupational safety and radiation protection aspects in U mining – M. Dionisi (ISPRA), R. Remetti (ITER)
	Safeguards requirements and transport activities related to U mining activities – S. Pheto (NNR)

Thursday 15 th December, 2016	
9.00 – 13.00	NORM issues and Environmental impact from U mining – S. Pheto (NNR)
	Emergency preparedness for U mining sites – S. Pheto (NNR)
13.00 – 14.00	Lunch
14.00 – 17.00	Practical Application – R. Remetti (ITER)

Friday 16 th December, 2016	
9.00 – 13.00	Authorization process and safety analysis for licensing of mining and milling activities – K. Horvath (HAEA) , A. Madonna (ITER)
	Decommissioning of U mining facilities – I. Tripputi (ITER)
13.00 – 14.00	Lunch
14.00 – 17.00	Rehabilitation of U mining sites – I. Tripputi (ITER)
	Remediation, long-term monitoring and maintenance of the closed uranium mine – I. Tripputi (ITER), M. Dionisi (ISPRA)

Saturday 17 th December, 2016	
9.00 – 13.00	Regional Countries' Presentations
	Public information – A. Madonna (ITER)
	Course Summary
13.00 – 14.00	Lunch
14.00 – 17.00	Questionnaire Opinion from trainees Certificates awarding Training Minutes