

EU Training Course on “Nuclear fuel cycle and Uranium mining from a regulatory perspective”	
Duration	1 Week
Content	<p>The module will provide a presentation of the front-end of the fuel cycle: ore extraction, conversion and enrichment, fuel fabrication and use in the power plant, spent fuel reprocessing and recycling of re-enriched reprocessed U and Pu as MOX in PWR. It will provide a description of the nuclear fuel cycle technologies, from the point of view of the nuclear and radiation safety and the key issues related to RW and SF management, storage and disposal activity, radiological protection of people and environmental protection. MOX technology, reprocessing aspects and other relevant aspects of fuel cycle will be considered. An overview of the uranium mining process discussing differences among applied technologies and related safety aspects will be presented.</p> <p>Implications for transportation and radioactive waste treatment and conditioning will be discussed.</p> <p>Security aspects and requirements coming from International Conventions will be considered.</p> <p>Elaboration of practical cases will be included in the training program.</p>
Achievements	The attendees will attain the knowledge and learning of key aspects, related to processes and activities related to the fuel cycle technology and its main aspects (requirement) dealing with the regulatory and licensing function.