

## CLP4NET Course Description Form

Detailed Description	
<b>Course Full Name</b>	<b>Nuclear security threats and risks: material out of regulatory control</b>
<b>Purpose of the course</b>	This e-learning module is designed to develop learner's understanding of nuclear security threats and risks for material out of regulatory control (MORC), including an introduction to MORC; criminal and intentional unauthorized acts; adversary tactics for acquiring and moving MORC; material for potential threat devices; and risk informed approach.
<b>Target audience</b>	The audience for this course is intended to include all personnel and organizations with nuclear security responsibilities and functions. This includes, but is not limited to: national security authorities, regulatory bodies, national nuclear security coordinators, law enforcement, customs, intelligence and security agencies, operators, technical support organizations, educational and training organizations, and nuclear security support centres.
<b>Syllabus</b>	<ol style="list-style-type: none"> <li>1. Introduction to MORC</li> <li>2. Criminal or intentional unauthorized acts involving MORC</li> <li>3. Adversary tactics for acquiring and moving MORC</li> <li>4. Material types for potential threat devices</li> <li>5. A risk informed approach</li> </ol>
<b>Learning Outcomes</b>	<p>Upon completion of this module, learners will be able to:</p> <ol style="list-style-type: none"> <li>1.1 List common legitimate uses of nuclear and other radioactive material</li> <li>1.2 Describe the widespread nature of nuclear and other radioactive material</li> <li>1.3 Describe material out of regulatory control</li> <li>2.1 Recognize criminal or intentional unauthorized acts, including theft, illicit trafficking, and malicious use/acts</li> <li>3.1 Recognize how an adversary may acquire nuclear and other radioactive material</li> <li>3.2 Identify tactics the adversary may use to transport nuclear and other radioactive material or devices</li> <li>3.3 Recognize common scams and hoaxes</li> <li>4.1 Describe the different types of threat devices [radiation exposure device (RED), radiological dispersal device (RDD) and improvised nuclear device (IND)]</li> <li>4.2 Distinguish between nuclear and other radioactive material of concern for REDs, RDDs and INDs</li> <li>5.1 Describe a risk informed approach (RIA)</li> </ol>
<b>Knowledge Domain</b>	
<b>Keywords</b>	Nuclear Security, Material Out of Regulatory Control, Criminal Acts, Unauthorized Acts, Radiation Exposure Device (RED), Radiological Dispersal Device (RDD), Improvised Nuclear Device (IND), Theft, Trafficking, Smuggling, Sabotage, Scam, Hoax, Risk Informed Approach
<b>Pre-requisites (if any)</b>	Overview of nuclear security threats and risks
<b>Language</b>	English
<b>Interactivity</b>	Self-study
<b>Format</b>	Online e-learning
<b>Duration</b>	3 h
<b>Assessment</b>	Assessed
<b>Certification</b>	Certificate of Completion
<b>Version Number</b>	v1.00
<b>Version Date</b>	June 2017
<b>Unique Technical Requirements</b>	N/A
<b>Author(s)/Owner(s)</b>	
<b>Intellectual Property Owner</b>	IAEA

## CLP4NET Course Description Form

<b>Copyright &amp; other restrictions</b>	IAEA copyright
<b>Contact Point</b>	<a href="mailto:nsnselearning@iaea.org">nsnselearning@iaea.org</a>
<b>IAEA Web Taxonomy Tag IDs</b>	3077; 3105; 3232; 3303; 3740; 3761
<b>IAEA Web Taxonomy Tag Names</b>	Department of Nuclear Safety and Security; Nuclear Safety and Security; Online learning; Public events security; Security; Security of nuclear and other radioactive material