

CLP4NET Course Description Form

Detailed Description	
Course Full Name	Information and Computer Security
Purpose of the course	This course is based on IAEA guidance documents and provides an introduction to the basic principles of information and computer security for nuclear security practitioners. This module examines how information security and computer security is used in the process of securing nuclear and other radioactive material, as well as the ways Member States have to secure systems such as these against an attack.
Target audience	This course is aimed at participants of face-to-face training and other human resource development activities implemented by the IAEA and its Member-States as well as interested nuclear facility personnel and the public.
Syllabus	<ol style="list-style-type: none"> 1. What is computer security? 2. Potential targets 3. Threats and origins
Learning Outcomes	<p>After completing this course, the learner should be able to explain</p> <ol style="list-style-type: none"> 1.1 Define computer security. 1.2 Identify information security principles. 1.3 Describe security domains. 1.4 Describe initiating a defence in depth. 1.5 Describe computer security management. 1.6 Define computer security measures. 1.7 Describe policy. 1.8 Describe incident response. 2.1 Identify how computers and computer-based systems are used in various aspects of nuclear and other radioactive material operations. 2.2 List key focus points . 2.3 Describe an example of how computers might be integrated at a nuclear power plant. 2.3 List key differences between information technology (IT) and operational technology (OT). 3.1 Identify threat characteristics. 3.2 Describe the cyber insider threat. 3.3 Describe real life case studies and scenarios. 3.4 Define social engineering in the context of computer security. 3.5 List examples of network attacks. 3.6 Describe attacks on industrial control systems (ICS). 3.7 Identify emerging risks. 3.8 Identify new targets. 3.9 Identify human behaviours that increase risk to computer-based systems.
Knowledge Domain	
Keywords	Information and Computer Security
Pre-requisites	none
Language	Arabic, Chinese, English, French, Russian, Spanish
Interactivity	Self-study
Format	Online e-learning
Duration	1 h
Assessment	Not assessed
Certification	Certificate of Completion
Version Number	v1.01
Version Date	
Unique Technical Requirements	N/A
Author(s)/Owner(s)	
Intellectual Property Owner	IAEA

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Contact Point	nsnselearning@iaea.org
IAEA Web Taxonomy Tag IDs	3077; 3105; 3232; 3303; 3740; 3744; 3764
IAEA Web Taxonomy Tag Names	Computer and Information Security; Department of Nuclear Safety and Security; Nuclear Safety and Security; Online learning; Security; Security aspects of nuclear facilities; Security of nuclear and other radioactive material