

A Day in the Life of a Cyber-Enabled Safeguards Inspector

Cyber Security Training Course for Safeguards Practitioners

AT A GLANCE

Who: Early to mid-career safeguards practitioners who seek a greater understanding of cyber security threats to safeguards systems and processes.

What: 4-day (plus optional introductory day) virtual course on cyber security threats to international nuclear safeguards

Where: Virtual training course hosted by PNNL

When: September 21st – 25th, 2020

Why: To enable safeguards researchers of all abilities to incorporate the cyber-aware practices into solutions they develop to the most pressing safeguards needs



COURSE OBJECTIVES

This course aims to provide participants with a fundamental understanding of how cyber security touches areas of the IAEA's safeguard mission. This course will strive to illuminate the intersection of these two disciplines while fostering discussion of potential opportunities. Highlights of course include:

- Engage and network with Safeguards and Cyber Security experts
- Learn about safeguards tools and information assurance methods

PARTICIPANTS

The course is designed for early to mid-career safeguards practitioners (technical instrument developers, instrument users, policy advisors, etc.) who will benefit from a greater understanding of cyber security threats and how to reduce risks to safeguards systems and processes. Participants are expected to have knowledge and experience in safeguards.



COURSE STRUCTURE

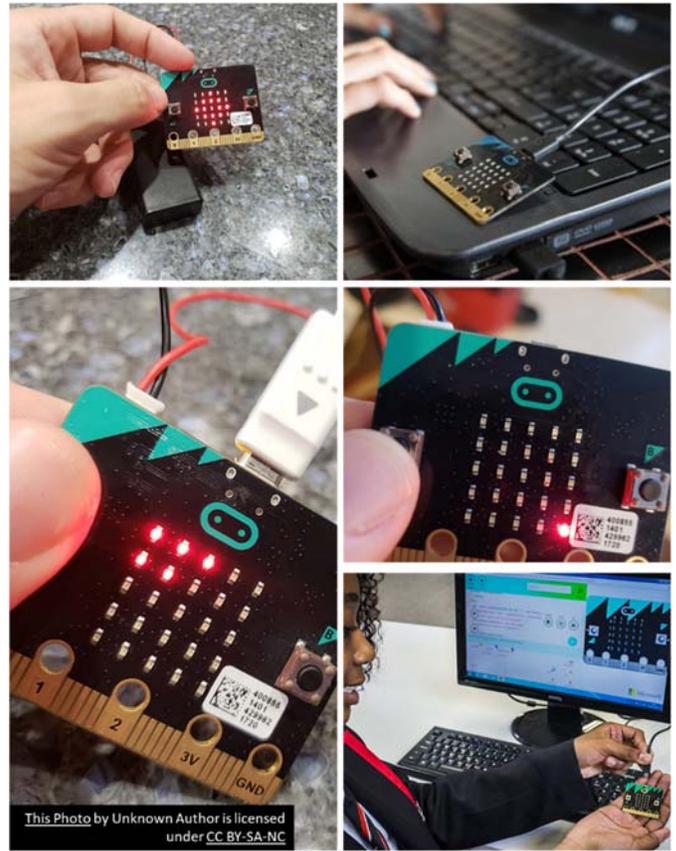
This 4-day course will feature virtual seminars, group-based exercises, and hands-on demonstrations of safeguards concepts with simulated equipment. Below are the planned topics for the course. A final agenda will be provided to the students selected for the course.

- » **Cyber Security Fundamentals:** Key aspects of cyber security—preserving the availability, integrity, and confidentiality of an organization's information— and introduce the special concerns for international safeguards
- » **Safeguards and Cyber Security Vulnerabilities:** The interplay between safeguards and cyber security, including performing a vulnerability assessment of a digital safeguards system
- » **IAEA Safeguards Inspections:** Learn how cyber security threats affect safeguards as you role play as an International Atomic Energy Agency (IAEA) Inspector. Learn how inspectors prepare, travel to, and conduct on-sight inspections at facilities and what measures must be taken to protect highly sensitive information.
- » **Hands-on Micro:bit Exercises:** Learn the concepts behind safeguards information protection using exercises developed for micro:bit devices.

ABOUT PNNL

Located in southeastern Washington State, PNNL is a U.S. Department of Energy Office of Science laboratory that solves complex problems in energy, national security, and the environment, and advances scientific frontiers in the chemical, biological, materials, environmental, and computational sciences. With a team of approximately 4,400 staff, PNNL has an annual budget of nearly \$1 billion and has been proudly managed by Ohio-based Battelle since 1965.

www.pnnl.gov



HOW TO APPLY

To apply, complete the registration form at <https://nonproportal.energy.gov>.

The application deadline is **August 21st, 2020**.

This course is FREE to participants who are accepted. Course participants will be asked to provide home/physical mailing address to receive micro:bit device.

Send any questions with respect to logistics or course content to:

Safeguards.Cyber.Course@pnnl.gov.

