



ORNL

GLOBAL
SAFEGUARDS AND
SECURITY
EDUCATIONAL
CENTER

The ORNL Global Nuclear Security Technology Division presents the Global Safeguards and Security Educational Center (GSSEC). ORNL offers the intellectual infrastructure, unique capability, and capacity for data research and education. The GSSEC integrates multiple training resources with experienced staff to present a functional program of workshops, certification courses, specialized training, and seminars. Examples of current capabilities include safeguards, nuclear material controls, physical protection, professional development, vulnerability assessment, protection program sustainability, and nuclear material detection.

Oak Ridge National Laboratory
Global Safeguards and Security
Educational Center
<https://wiki.ornl.gov/sites/gnstd/nsst/>

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GLOBAL SAFEGUARDS AND SECURITY EDUCATIONAL CENTER

COURSE OFFERINGS

Subject Areas

Nuclear Engineering

Nuclear Material Control/Safeguards

Project Management

Radiological Controls

Security

Transportation

Nuclear Engineering

NE-550 Nuclear Instrumentation—University of Tennessee, Knoxville, 18 hours

Point of Contact (POC): Bert Rollen, 865.241.4343, rollenhyjr@ornl.gov

NE-403 Nuclear and Radiological Engineering Laboratory II—University of Tennessee, Knoxville, 16 hours

POC: Bert Rollen, 865.241.4343, rollenhyjr@ornl.gov

Nuclear Material Control/Safeguards

Nuclear Material Control and Accounting—Seminar (1-4 days, depending on audience needs)

POC: Bill Hopwood, 865.241.3143, hopwoodwhjr@ornl.gov

Nonproliferation Measurement Workshop—TAMU or other universities (5 days)

POC: Bert Rollen, 865.241.4343, rollenhyjr@ornl.gov

NDA Primer (for nontechnicals) – Course (2 days)

POC: Bert Rollen, 865.241.4343, rollenhyjr@ornl.gov

Basic NonDestructive Assay (NDA) (for technicals) – Course (3–5 days)

POC: Bert Rollen, 865.241.4343, rollenhyjr@ornl.gov

Principles of Nuclear Material Process Holdup—Course (3-5 days) POC: Bert Rollen, 865.241.4343, rollenhyjr@ornl.gov

Automated Holdup Measurements: a Hands-On Approach, Applied Process Measurements – Course (1 week)

POC: Bert Rollen, 865.241.4343, rollenhyjr@ornl.gov

NDA for Criticality Safety Practitioners – Criticality Safety Analysts (1 day)

POC: Bert Rollen, 865.241.4343, rollenhyjr@ornl.gov

Nuclear Material Accounting for Uranium Enrichment Plants – Course (1 week)

POC: Michael Whitaker, 865.576.1682, whitakerjm@ornl.gov

Implementing IAEA Safeguards in the United States – Seminar/workshop (4-8 hours)

POC: Michael Whitaker, 865.576.1682, whitakerjm@ornl.gov

Facility Systems for Accounting and Control of Nuclear Materials – Workshop (2-5 days)

POC: Bill Hopwood, 865.241.3143, hopwoodwhjr@ornl.gov

Project Management

Russian Project Management and Design Processes – Seminar (1–2 hours depending on audience needs)

POC: Brian Cowell, 865.574.0656, cowellbs@ornl.gov

Radiological Controls

Radiological Protection Criteria – Course (1 week)

POC: Bill Toth, 865.675.3738, tothwj@ornl.gov

Materials of Concern (Radiological) – Course (2-5 days)

POC: Bill Toth, 865.675.3738, tothwj@ornl.gov

Materials of Concern (Nuclear) – Course (1 week)

POC: Bill Toth, 865.675.3738, tothwj@ornl.gov

Security

Safeguards and Security Program Development (System Sustainability) – Course (1 week)

POC: Bill Toth, 865.675.3738, tothwj@ornl.gov

Physical Protection Overview – Seminar (4 hours or 1 day depending on audience needs)

POC: David Lambert, 865.576.8458, lambertld@ornl.gov

Physical Protection Overview – Seminar (4 hours or 1 day depending on audience needs)

POC: David Lambert, 865.576.8458, lambertld@ornl.gov

Vulnerability Assessment Overview – Seminar (4 hours to 1 day, depending on audience needs)

POC: Sharon Wagner, 865.241.0876, wagnerss@ornl.gov

Physical Protection Professional Development – Workshop (2 days, depending on audience needs)

POC: Sharon Wagner, 865.241.0876, wagnerss@ornl.gov

Transportation

DOE/NNSA SG-100, Packaging and Offsite Transportation of Nuclear Material – Workshop (4–5 days)

POC: Matt Feldman, 865.946.1291, feldmanmr@ornl.gov

DOE/NNSA SG-600, Test Guide for Type B Packages – Workshop (1 day)

POC: Matt Feldman, 865.946.1291, feldmanmr@ornl.gov

DOE/NNSA Packaging Workshop (regulations, policies, standards, safety guides) – Workshop (3 days)

POC: Matt Feldman, 865.946.1291, feldmanmr@ornl.gov

Security in the Transport of Radioactive Material (in cooperation with NNSA and IAEA)—Workshop (3–5 days)

POC: Mark Hawk, 865.946.1275, hawkmb@ornl.gov

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