

RADIATION AND NUCLEAR CRITICALITY ANALYSIS OF RAM PACKAGES COURSE

COURSE INFORMATION

The course will provide detailed instructions on the development and review of the radiation shielding and nuclear criticality safety (NCS) evaluations for a radioactive material transportation package. An overview of applicable regulations and essential criticality and shielding fundamentals is also provided.

The course will cover the techniques used to perform radiation shielding and NCS analyses of radioactive material transportation packages. Multiple examples are presented and discussed from Safety Analysis Report for Packaging (SARP), with hands-on exercises using either the MCNP or SCALE code packages.

The contents of the courses are tailored to analysts and practitioners that prepare and/or review technical analyses for the SARP documentation.

This course is part of the U.S. Department of Energy Packaging Certification Program's Packaging University.

Students who complete this course, along with other Packaging University classes, may use the credits toward accredited university graduate certificates offered by the University of Nevada, Reno.



REGISTER TODAY

Dates: November 3-7, 2025

Location: Oak Ridge National Laboratory, Oak Ridge, Tennessee

Instructors: Walid Metwally, Georgeta Radulescu, and Joel Risner

Contact: 865-341-2275 or metwallywa@ornl.gov



Scan here to learn about the DOE Packaging Certification Program's Packaging University



Scan here to learn about the Nuclear Packaging Graduate Program at the University of Nevada, Reno



Scan here to learn about the course instructors and Nuclear Data, Criticality Safety, and Radiation Transport at ORNL

