

# NP 607: RADIATION AND NUCLEAR CRITICALITY ANALYSIS OF RAM PACKAGES

## 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.



## INSTRUCTOR INFORMATION

**Instructors:** Walid Metwally, Georgeta Radulescu, and Joel Risner, Ph.D.

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*This course will be held onsite at Oak Ridge National Laboratory.*



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