



NSSC-LANL Inspectors School Fundamentals of Nondestructive Assay (NDA)

June 9-13, 2025

Contact rinaudo@lanl.gov and makaylas@lanl.gov to enroll.

Registration deadline: April 11, 2025



Fundamentals of Non-Destructive Assay (NDA) for Keeping Nonproliferation Science Summer Program

Location: Los Alamos National Laboratory, New Mexico, USA

This course is an introduction to nondestructive assay (NDA) measurement techniques that are used for nuclear material accountancy by the International Atomic Energy Agency (IAEA) or within a State's System of Accounting and Control (SSAC). The course is designed to teach students the fundamentals of gamma-ray and neutron based detection.

The course will include lectures and a number of hands-on exercises in Los Alamos National Laboratory's training facility, leveraging the exemplary expertise and resources that are also used to instruct IAEA inspectors in NDA principles each year. This course will allow students a unique opportunity to perform NDA measurements using a variety of NDA instruments such as sodium iodide systems, high-purity germanium detectors, and several types of neutron-based detectors – on a variety of nuclear materials. The training will focus on the quantitative measurements of mass and isotopic composition on uranium and plutonium items.

Questions? Please email rinaudo@lanl.gov, makaylas@lanl.gov, or nssc_info@Berkeley.edu