

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
MATERIALS AND TESTS UNIT
SOILS LABORATORY**

**CERTIFICATION POLICIES: NUCLEAR SAFETY & HAZARDOUS
MATERIALS SCHOOL (MAT 250)**

Course Description: This course is designed to instruct technicians and engineers in the issues concerned with radioactive and hazardous materials. The course is required by our radioactive license, which is enforced by the North Carolina Department of Environment and Natural Resources: Radiation Protection Section (NCDENR). Prior to a technician handling, operating, or transporting nuclear density gauges owned by NCDOT, he/she must attend and pass this course. Health Physicists from the Radiation Protection Section also assist with teaching part of the course. As required by our radioactive license through NCDENR, this course is available to NCDOT employees only.

Prerequisites: None

PDH's: 5.5

Length of Class: 1 day

Course Materials: Pencil, pen, and notepad

Provided Materials: None

Fees: None

Certification Process: Must attend class and pass a written exam. The exam is closed book and the minimum passing grade is 80. Once the technician successfully completes the class he/she will be entered into HiCAMs with an "active" status. To become a certified nuclear gauge operator, a Technical Trainer must perform the necessary field training with the technician. Call the Soils Laboratory at least two weeks prior to needing the technician certified so a film badge can be ordered. The Technical Trainer will call when the film badge arrives to schedule an appointment for field training. Once the Technical Trainer judges that the technician can safely handle the nuclear device and properly perform the density tests as controlled by our radioactive license, the Trainer will issue the card and certificate. The technician will be issued an ABC nuclear density technician certification in HiCAMs, and he/she will remain certified for 1 year after receiving the field training. As required by our license, the technician must be re-certified in the field each year by a Technical Trainer for nuclear gauge safety and operation, and if warranted, the Technical Trainer can revoke a certification at anytime.