

RADIATION SAFETY – OVERVIEW FOR ENVIRONMENTAL PROFESSIONALS (165.11)

1 DAY

This 1–day introductory level course is designed to 1) provide participants with an overview and basic understanding of the fundamental principles of radiation safety and 2) provide guidance on EPA radiation response resources for site work involving radioactive materials. This course is intended for environmental professionals who **are not** health physicists or other radiation safety specialists, but require a basic knowledge and understanding of radiation safety. Participants who are responsible for reviewing and discussing radiological issues will benefit from this course.

Topics that are discussed include fundamental concepts of atomic structure, radiation, and radioactive decay; methods and characteristics of radiation interaction with matter; radiation dose limits and basic methods to control radiation exposures; and biological effects of radiation.

Instructional methods include lectures, class discussions, and demonstrations.

After completing the course, participants will be able to:

- Discuss basic terminology and fundamental principles of radiation.
- Identify the three primary types of ionizing radiation and characteristics.
- Identify radiation dose limits and explain basic methods to control exposures.
- Discuss biological effects of radiation.

Continuing Education Units: 0.4

ABIH Certification Maintenance points: 1.0