

Radiation Safety

This three-day course begins with a fundamental review of radiation. Methods of measuring radiation and radioactivity, effects of radiation exposure, ways to detect and shield against radiation are presented. Standard operating procedures and emergency procedures of a radiation safety program are also stressed.

I. Radiation Fundamentals

- Atomic and Nuclear Properties
- Radiation and Radioactivity
- Common Terms
- Properties of Radiation
- X-Ray Production
- Half-Life

II. Radioactivity and Radiation

- Radioactivity and Radiation
- Radiation Exposure Effects
- Risk From Exposure
- Doses

III. Radiation Detection and Shielding

- Radiation Detection Equipment
- Bicon Detection Equipment
- Shielding

IV. Site-Specific Training

- Standard Operating Procedures
- Radiation Safety Program
- Emergency Procedures
- Handling and Installing Sources
- Change of Source
- Procedure for Detection of Radioactive Material in Scrap