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
   · Bicron 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