

TEMPLE UNIVERSITY

ENVIRONMENTAL HEALTH AND RADIATION SAFETY

NO. 3.4

TITLE: Radiation Safety Training

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ISSUED: 3/23/93

REVISED: 9/15

The Environmental Health and Safety/ Radiation Safety Department (EHRS) provides several types of radiation safety training. Radiation workers are required to receive one or several of these training types.

A. Research Use of Radioactive Materials

1. Initial Radiation Safety Training

Consistent with the regulations of the U.S. Nuclear Regulatory Commission and the Pennsylvania Department of Environmental Protection and Temple University Policies and Procedures. All radioactive material users must successfully complete the radiation safety training consisting of the Fundamentals of Radiation Protection and the Radiation Protection Standards.

The topics addressed in training may include items such as:

- Radioactivity and radioactive decay
- Sources of ionizing radiation
- Interaction of radiation with matter
- Radiation detection and measurement
- Biological effects of ionizing radiation
- Contamination and decontamination
- Practical aspects of working with radioactive materials
- Other beneficial subjects based on the judgment of the Radiation Safety Committee and EHS

Part 2 - Radiation Protection Standards consist of **the** following:

- Introduction to the Environmental Health and Safety Department at Temple University.
- Definition, concept and application of ALARA.
- The radiation exposure dose limits, signs and other legally mandated requirements.
- Conditions of Temple University licenses and their application.
- Other subjects related to radiation protection standards.

Prospective radioactive material users who have received radiation safety training elsewhere are required to receive part 2 of the training (Radiation Protection Standards). All others must receive training in both parts. Training must be completed within sixty days in accordance with Policy No. 4.13.

2. Annual Refresher Training: All radioactive material users are required to receive annual refresher training. Annual refresher training is the review of radiation safety principles and highlights of any changes in Temple University policies.

B. Medical Use of Radioactive Material

1. New Employee Basic Training: New employees receive basic radiation safety training. This training includes the ways to recognize the presence of radioactive materials and radiation producing equipment, precautions to observe in radioactive material or radiation area, personal safety during daily work routines, and steps to follow if accidentally involved with radioactive material.

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Radiation Safety Training for Clinical Staff: Medical staff who work with radioactive materials or radiation producing machines are required to receive this annual radiation safety training. This training is department specific and covers material applicable to patient care.

C. Basic Radiation Safety Training for Others

Radiation Safety Training For House Keeping, Physical Plant and Security Staff: Employees who frequently enter areas where radioactive materials are used or stored are required to receive this annual training.

Radiation Safety Training for X-ray Users: Individuals who operates x-ray producing equipment are required to receive this annual training.

Radiation Safety Training for Analytical X-ray Users: Individuals who work with analytical x-ray equipment are required to receive this annual training.