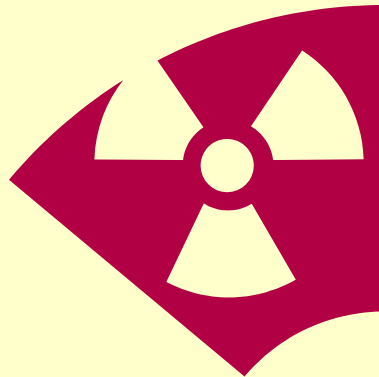


# **Radiation Safety Awareness Training**

Environmental  
Health and Safety



# Who is this training for?

- **Radiation Safety Awareness Training** is for PFW employees who may potentially come into contact with radiological materials in some aspect of their job tasks, but are not certified radiation users.\*

\*Certified radiation users must attend **Radiation Safety Training** through EHS and must be approved by the Purdue Univ. Radiation Safety Officer for authorization to handle any radioactive materials.

# Purpose of this training

- Educate employees who may potentially come into contact with radioactive materials in some aspect of their job, but are not certified radiation users.
- Give employees a basic understanding of the hazards associated with radiation.

# Purpose of this training

- Educate employees on how to protect themselves from radiation hazards.
- Teach all PFW employees what to do in case of an emergency involving radioactive materials.

# What is Radiation?

- **Emission and transmission of energy through space or a material medium.**
- **Also the radiated energy itself.**
- There are several types of radiation, both natural and man-made.
  - Alpha radiation
  - Gamma radiation
  - X-rays
  - Beta radiation
  - Lasers
  - UV light

# What is Radiation?

- Radiation occurs naturally in the environment.  
Sunlight                      Minerals                      Radon gas
- Radioactive materials are used in:
  - commonly sold products: watches & signs
  - Energy production: nuclear power plants
  - Medical field: X-rays, cancer treatments

# Safety

- Radiation safety in Indiana is controlled by:
  - IDEM (Indiana Dept. of Environmental Management)
  - NRC (Nuclear Regulatory Commission)
- The NRC and IDEM function to protect ALL persons who work with radioactivity or could potentially come into contact with it.

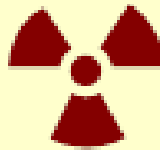
# Safety

- EHS must train & authorize ANYONE that will be working with radioactive materials.
- Individuals learn proper use, storage, and disposal techniques for the radioactive materials they will be using.



# Safety

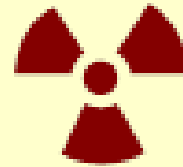
- EHS regularly surveys all areas where radioactive materials are used to ensure a clean & safe work environment for everyone!
- ALL radioactive materials, equipment, and waste MUST be clearly labeled as RADIOACTIVE!!!



**Any radioactive items should be easy to identify!!**

# Your Job as PFW Employees

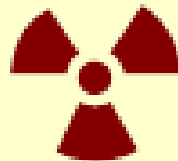
- As non-radiation using staff, you should **NEVER** handle anything that is labeled as being radioactive!



- While performing your job tasks, the potential of coming into contact with radioactive materials is possible, but very unlikely!

# Your Job as PFW Employees

- Only certain buildings at PFW have labs that perform radioactive experiments.
- At PFW any room where radioactive materials are used or stored must have a radioactive label on the door.



# Spills or Emergencies

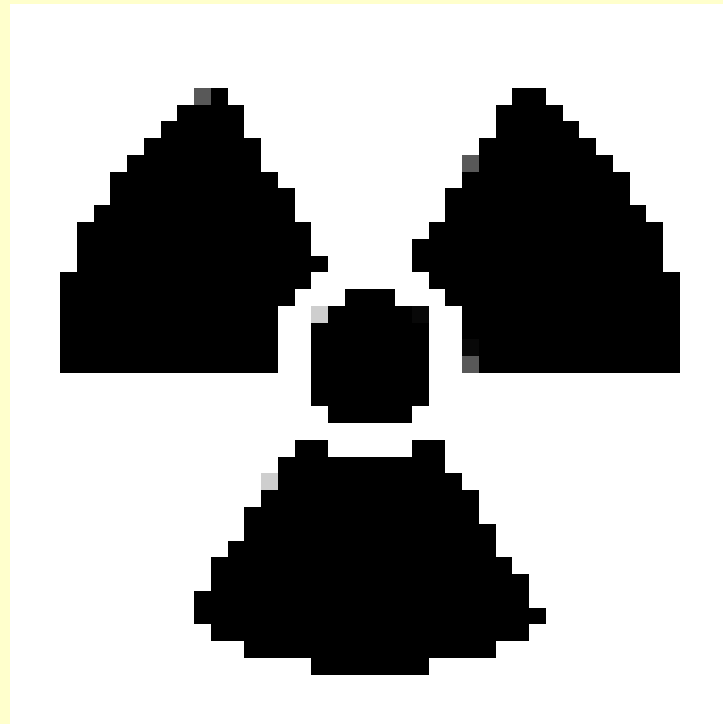
- Non-radiation certified staff should NEVER clean up radioactive spills or waste!!!
- EHS personnel are trained in the proper clean-up of radioactive spills.
- Only EHS personnel should engage in cleaning up a radioactive spill!!!

# Spills or Emergencies

If you encounter a potential radioactive spill or emergency while performing your job task:

1. Leave the lab and assure that no one else enters (post sign if necessary).
2. Go to the NEAREST phone and call University Police 16827.
3. Stay where you are until EHS arrives, so as not to spread potential contamination.

# Radioactive Symbol



# Questions about Radiation?

## Contact EHS:

Stephanie Phillips:

260-481-4193 [steels@pfw.edu](mailto:steels@pfw.edu)

Erin Turner:

260-481-4197 [mckien01@pfw.edu](mailto:mckien01@pfw.edu)