Radiation Safety Training - Non-Users

For people at UC Ua cado adate that work in proximity where radioactive materials and/or radiation producing machines are used

Background Radiation

Everyone on this planet is routinely exposed to background radiation that is naturally occurring. Examples include the sun and stars, uranium in soil and radon gas from the earth. In addition, radiation is routinely used in medicine, research and industry.

As a person who could potentially work near, but not with, radiation or radioactivity, your radiation exposure should be no different than the radiation exposure experienced by the general public.

Examples of Natural and Human-Made Radiation Exposure

Cross Country CT Scan UC Radiation Worker Natural Background Chest X-Ray U.S. Flight Radiation in the U.S. 3 mrem ~15 mrem/year 300 mrem/year 100 mrem - 1000 mrem 10 mrem **Radiation at the University** Radiation producing machines and radioactive materials are common tools used in research and clinical settings. Most academic campuses and medical centers have rooms that are authorized RADIOACTI to use radioactivity and have radiation producing MAT

UCÙÓ has ~HEE locations authorized to use radioactivity and ~I \in radiation producing machines. Around Í \in people are authorized to use these materials. These individuals are required to complete routine safety training. Their work is inspected closely for compliance by the radiation safety staff in the Office of Environment, Health & Safety.

machines (e.g. x-ray machines).

The tre-foil results is the internationally recognized symbol for identifying radiation hazards. All rooms where radioactive materials and radiation producing machines are used or stored are posted with a radiation warning sign on the door entrances. The sign will be yellow with black or magenta and will feature the tre-foil. **It is safe to enter these areas to do your routine work, unless posted or instructed otherwise.**

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(Above) Radiation Use Door Sign

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It is common to see radiation warning tape with the tre-foil symbol on laboratory benches, fume hoods, or specific laboratory equipment like refrigerators, freezers, and centrifuges. These labels denote that these areas may be contaminated with radioactive materials. It is safe to work near these areas, **but you should not touch them.**



(Left) Radiation Warning Tape around Benchtop; (Right) Radiation Producing Machine

Work in Posted Rooms

Staff in these settings are trained and authorized to use these materials or machines. Their work is inspected closely for compliance with radiation control regulations by the radiation safety staff to assure that this work is being done safely.

If your work requires you to touch or work in areas labeled as potentially contaminated with radioactivity, please contact Radiation Safety so they can confirm the area is free of radioactive contamination before you start work.

If you have non-routine work to perform (such as repairs, one-time requests, etc.) in rooms posted with radioactive signs, discuss your planned work activity first with the laboratory contact to confirm that it is safe to proceed. If in doubt, contact Radiation Safety for assistance.

Safety Tips

- Do not handle or move materials displaying a radiation label or located inside an area marked with radiation warning tape.
- Do not place personal items (tools, cups, etc.) inside areas labeled as potentially contaminated with radioactivity; you risk contaminating the item and yourself.
- Do not work in rooms when a radiation producing machine is turned on.
- Do not eat or drink in rooms that are posted with a radiation sign.

Questions or Concerns? EH&S Radiation Safety (Ì €Í) Ì JH-Ï Œ́ Í ehs.ucsb.edu/rad