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Fundamentals of Radiation Safety

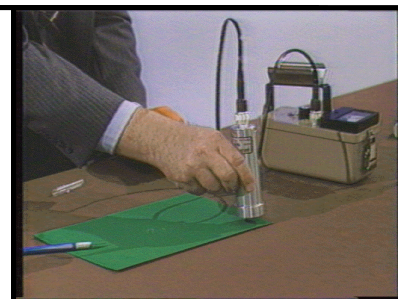
SAFR-101

An introductory training videotape on the characteristics of ionizing radiation. Techniques used to keep radiation doses as low as reasonably achievable (ALARA) and to minimize the potential for accidental exposures are discussed.

- The nature of ionizing radiation
- Radioactivity and half-life
- Natural & man-made sources
- Radiation quantities and units
- Internal and external exposures
- Irradiation and contamination
- Use of time, distance, and shielding
- Radiation monitoring
- Contamination control

Printed quizzes included in the package.

54 Minutes VHS



Radiation Protection Standards

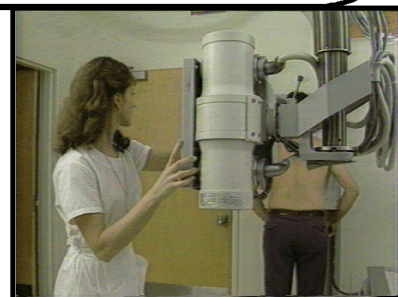
SAFR-102

Based on the 10CFR20, Standards for Protection Against Radiation, these radiation safety regulations affect all users of radioactive materials and radiation sources in the U.S.

- Dose Equivalent/Committed Dose Equiv./Committed Effective Dose Equiv./Total Effective Dose Equiv.
- Embryo/Fetus/Minors/Adults Dose limits
- Weighting Factors
- Derived Air Concentrations
- External Planned Special Exposures
- Work Areas and limits within areas
- Surveying and Monitoring
- Handling/Storage of radioactive materials
- Record Keeping and Reporting

This video program explains the radiation safety regulations to current and prospective radiation workers. Printed quizzes included in the package.

39 Minutes VHS



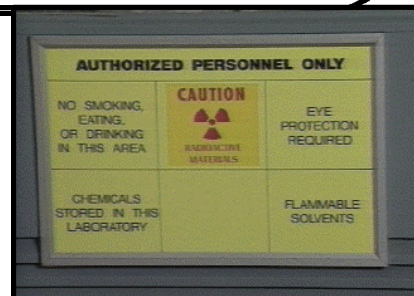
Radiation Safety and Common Sense

SAFR-103

The underlying concepts of radiation safety in non-technical language are explained. Straightforward analogies with everyday situations help place radiation exposure in its proper context.

- Energy as particles and rays
- Background Radiation
- Irradiation vs. Contamination
- Time, Distance and Shielding
- Risks Associated with Typical Occupational Exposures

26 Minutes VHS



Hospital Radiation Protection Practices

SAFR-104

This one hour video program is designed to help the Radiation Safety Officer provide both new employee orientation and scheduled continuing education sessions for nurses and technologists.

- Medical uses of radiation
- Background radiation, including radon
- Typical sources of ionizing radiation and techniques to reduce exposures
- Biological effects of radiation
- Radiopharmaceuticals
- Teletherapy, Brachytherapy, Nuclear Medicine & Iodine 131 Therapy

The video provides general hospital employees with a basic understanding of radiation, with a focus on radiation protection safety procedures for the medical use of byproduct material. Management's commitment to safety and the RSO's role as a source of information, services and assistance to help employees keep their exposures ALARA are discussed.

60 Minutes VHS



Radiation and Pregnancy: A Decision to Declare

SAFR-105

A program on the potential effects of occupational radiation exposure to the pregnant worker's embryo/fetus and the requirements for declaring pregnancy to initiate the 500 millirem fetal limit. Significant changes in genetics and radiation protection over the last century are examined.

Questions like the following are discussed:

- Do I have to declare my pregnancy in writing?
- Can I revoke my written declaration?
- Will I be able to continue to perform my normal job functions? What if I can't? Will I lose my job?

This video is intended for all female radiation workers of childbearing age, and their supervisors. Printed quizzes included in the package.

24 Minutes VHS



Radiation Risks Revisited

SAFR-106

A review of the risks associated with occupational radiation exposure, including cancer risk estimates and the linear no-threshold controversy. Common terms used to categorize possible health effects of radiation exposure, such as Somatic/Prompt/Delayed/Genetic/Teratogenic effects are explained.

- Internal vs External Exposure
- Derived Air Concentration
- Annual Limit on Intake
- Background Radiation Occupational
- Dose Limits
- Linear, No-Threshold Model
- Occupational Exposure Risks vs Everyday Risks Planned Special Exposures

Designed for all prospective and current occupational radiation workers. Printed quizzes included in the package.

24 Minutes VHS

