TRAINING GUIDE FOR RADIATION WORKERS

(Type or Print Clearly)

The following checklist of training items is a suggested format for required training to all Radiation Workers under the Authorized User's (AU's) authority *prior* to using radioactive material without direct supervision of the Authorized User or another approved Radiation Worker. The training should be performed by the AU but can be delegated to laboratory supervisors who are approved as Radiation Workers (RW's). Training records must be documented, dated and retained in the AU's records for 3 years. A copy may be sent to the RS Office for record retention.

The following items should be covered to the extent appropriate, according to the Radiation Worker's assigned responsibilities, for all personnel working with or surveying for radioactive materials:

DATE	TOPIC
	Basic radiation principles; types of radiation, particle / photon emissions.
	Radiation protection; time, distance, shielding, dose calculations, radiation measurements, area postings (signage).
	Radiation units and terminology; including rad, rem, roentgen, curie, etc.
	Description of ALARA concept.
	10 CFR Part 19 requirements, regulatory terminology, NRC form 3, rights of RW's, where is the regulation located, and recommended areas to post NRC form 3 in your laboratory.
	Radiation dosimetry; dosimetry terminology, how to wear dosimetry, bioassay, declared pregnan worker program, fetal dosimetry, terminology (TEDE, CEDE).
	Emergency response procedures involving radioactivity; Fires, injuries, major and minor spills, spill response, notification and clean up procedures.
	Instructions on how to perform radiation surveys and what are any specific requirements for the area.
	Description of the various isotopes used in the laboratory; handling procedures, waste minimization strategies, disposal and precautions associated with specific isotopes.
	Review the Authorization documentation; applications, authorizations, conditions necessary to maintain compliance, basic lab rules (lab coats, eye protection, eating restrictions, and open toed shoe restrictions), etc.
	Procedures for ordering, receipt and transfer of radioactive materials.
	Record keeping requirements; inventories, training, etc.
	Instructions on managing radioactive waste, requesting a pickup and disposal documentation.

TRAINING GUIDE FOR RADIATION WORKERS – CONTINUED

	Notification requirements; when to c	all the RS Office.	
	Observe and demonstrate the appropriate technique for checking and using a survey meter.		
	Observe and demonstrate the appropriate use of a liquid scintillation counter; discuss windows, protocols, efficiencies, dpm vice cpm, trigger levels, and false positives and appropriate corrective actions.		
	Observe and demonstrate the appropriate use of any other method of counting used. The use of a type counter was demonstrated.		
	Observe and demonstrate the procedure for performing a laboratory survey for contamination and discuss trigger levels.		
Emphasize the importance of dry runs and cold runs prior to performing each type of experiment.			
1) What does ALARA stand for?			
2) What are the colors of a "CAUTION RADIOACTIVE MATERIALS" sign?			
3) What	What can you do to minimize your dose from radioactive materials?		
4) Can b	4) Can beta radiations from tritium, carbon-14 or sulfur-35 penetrate the skin?		
5) What	unit is used to measure activity?		
I understand and have demonstrated the noted training topics.			
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