UIC Environmental Health and Safety Office
Radiation Safety Section, 339 CSN, M/C 932

Phone: 6-7429 Fax: 6-8776
http:\\www.uic.edu\depts\envh

TRAINING AND EXPERIENCE OF RADIATION PROJECT DIRECTOR

For Nonhuman Use Radionuclide Projects

Name _____ [ ] PhD [ ] MD [ ] _____
First M.I. Last Other beyond Baccalaureate

University Identification Number _____ Department/Section _____

Office Location _____ Mail Code _____ Phone _____ e-mail _____

UIC RADIATION SAFETY TRAINING		
Have you attended the UIC Radiation Safety Lectures?	[ ] No	[ ] Yes, dates _____

OTHER APPLICABLE CLASSROOM AND LABORATORY TRAINING				
INSTRUCTION OTHER THAN THE UIC RADIATION SAFETY LECTURES			DURATION OF COURSE WORK	
SUBJECT MATTER	INSTITUTION	DATE	LECTURE	LABORATORY
Radiation Physics and Instrumentation				
Radiation Protection				
Mathematics Pertinent to Use and Measurement of Radiation				
Radiation Biology				
Radiation Chemistry				
Other				

EXPERIENCE WITH RADIOACTIVE MATERIAL INDICATE SKILLS ACQUIRED ON PAGE 2				
Institution	Duration		Radionuclide(s) Handled	Maximum Activity Handled in mCi
	From	To		

Signature _____ Date _____

Filing: Place the original in the project "A" file. Place one copy in the personnel file. Include a copy with the project authorization documents being sent to project director.

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LIST OF SKILLS

Place a Y or Ψin the applicable boxes

Radiation Safety Skills

- ☐ Performance of radiation surveys using portable survey meters (contamination and area measurements)
- ☐ Contamination monitoring using surface wipes (smears)
- ☐ Use of personnel monitoring devices (film badges, TLD, etc.)
- ☐ Use of mechanical pipetting devices (mouth pipetting is prohibited in radionuclide labs at UIC)
- ☐ Management of radioactive waste generated in the laboratory (solid, liquid, scintillation vials, gases, etc.)
- ☐ Sink disposal of liquid radioactive wastes (permitted for soluble or readily dispersed biological materials at UIC)
- ☐ Use of radiation shielding (benchtop shields, storage boxes, waste container shields, etc.)
- ☐ Radioactive material decontamination methods
- ☐ Maintaining inventory records of receipts, on-hand activity, dispensing, usage, disposal, transfers, etc.
- ☐ Other radiation protection procedures such as leak testing of sealed sources, calibration of survey meters, processing of radioactive waste, receipt of shipments, bioassays, dosimetry, etc.

Laboratory Skills

- ☐ Preparation of samples for liquid scintillation or gamma counting
- ☐ Thin layer or column chromatography
- ☐ HPLC
- ☐ Gas chromatography
- ☐ Gel Electrophoresis
- ☐ Northern, Southern, or Western blotting
- ☐ Autoradiography, gels or blots
- ☐ In vitro cell or tissue autoradiography
- ☐ Phosphor imaging
- ☐ Cell or tissue culturing
- ☐ Radioimmunoassay and/or ligand binding
- ☐ Pulse labeling
- ☐ Synthesis of radio-labeled compounds
- ☐ Labeling of biological compounds with radioactive iodine (iodinations) or other halogens
- ☐ Handling of finely divided radioactive liquids or solids (aerosols, powders, ash, etc.)
- ☐ Handling radioactive gases
- ☐ Tracer techniques such as active transport, diffusion, radioenzymatic assays, etc.
- ☐ Molecular cloning techniques such as PCR, DNA/RNA sequencing, cRNA, cDNA or oligonucleotide labeling
- ☐ Operation of a self-contained irradiator
- ☐ Operation of an open beam or room irradiator

In-Vivo Skills

- ☐ Administration of radioactive material to animals by injection (IV, IM, IP, ICV, etc.)
- ☐ Housing of radioactive animals (feeding, bedding changes, contamination monitoring, cage decontamination, etc.)
- ☐ Collection and preparation of radioactive tissues, organs, samples, etc.
- ☐ Use of microspheres in animals
- ☐ Techniques for radionuclide anabolism/catabolism studies
- ☐ In-vivo autoradiography

Other Skills

- ☐ _____
- ☐ _____
- ☐ _____