



Environment, Health, & Safety  
Training Program

**EHS0478 ~ Radiation Protection – Radiological Practical Training**

**Course Syllabus**

<b>Subject Category:</b>	<b>Radiation Protection</b>	<b>Course Prerequisite:</b>	<b>EHS0471 and/or EHS0473</b>
<b>Course Length:</b>	<b>1 Hour</b>	<b>Medical Approval:</b>	<b>NO</b>
<b>Delivery Mode:</b>	<b>One-on-One</b>		
<b>Schedule:</b>	<b>As Needed</b>		
<b>Location/Time:</b>	<b>Determined by instructor</b>		

**Course Purpose:** To provide practical hands-on training commensurate with a job assignment that requires an employee to work with dispersible radioactive material (> 10CFR835 Appendix D levels) or work in a posted Contamination Area (CA), High Contamination Area (HCA), Airborne Radioactivity Area (ARA) or High Radiation Area (HRA). This course is designed to evaluate an employee's work practices, survey techniques, donning and doffing of protective clothing, and their responses to both normal and off normal conditions. This course is mandatory prior to commencing work in a CA, HCA, ARA, or HRA under any Radiological Work Authorization (RWA). Other radiation protection courses may also be required and will be specified in the RWA covering the work.

**Course Objectives:** After completing this training, you will be able to:

- Properly select and use radiation instruments.
- Properly select and use of contamination instruments.
- Properly select and inspect protective clothing.
- Properly don and doff protective clothing.
- Properly document survey results.
- Take proper actions to take in an off normal situation (elevated radiation levels, contamination found).
- Properly post job personnel surveys.

**Course Instructional Materials:**

- Various radiation and contamination instruments
- Survey Form
- Various types of Protective Clothing (Lab Coat, Tyvek Coveralls, Gloves, Booties)
- Copy of a Radiological Work Authorization

**Instructors:**

Jeffrey Bramble (x6242)  
Keith Heinzelman (x6804)  
Kaitlin Engel (x5827)

Melissa Mannion (x4423)  
Ibrahim Ozcan (x2842)  
Robert Fairchild (x2278)

**Training Compliance Requirements:** This course is designed to meet, in part, the requirements of 10CFR835 section 901. Other training, such as On-The-Job Training (OJT) may also be required depending on the work assignment.

**Course Handouts:** None

**Participant Evaluation:** Written evaluations regarding the effectiveness of the trainer, the training, and the visual aids.

**Written Exam:** None

**Practical Exam:** Yes-Proper donning/doffing of Protective Clothing (PC) and proper use of survey instruments must be demonstrated.

**Retraining/Recertification:** None

**WEB Resource:** EH&S Training Program website: [www.lbl.gov/ehs/training/index.shtml](http://www.lbl.gov/ehs/training/index.shtml)