



Environment, Health, & Safety
Training Program

EHS 400 ~ Radiological Worker 1 (part 1)

Course Syllabus

Subject Category: Radiation Protection
Course Length: Approximately 2 hours
Delivery Mode: Online training

Course Prerequisite: No
Medical Approval: No

Course Purpose: This course is designed to inform employees of the health and safety risks of radiation exposure, and to enable them to work safely with radiation sources and radioactive materials at Berkeley Lab. This introductory course is mandatory prior to commencing work with radiation under most Radiation Work Authorizations (RWAs) and Sealed Source Authorizations (SSAs) and some Radiation Work Permits (RWPs). Other radiation protection courses may also be required and will be specified in the RWA, SSA or RWP covering the work.

Performance Objectives: At the end of the course, the successful learner will be able to:

- Define radiological terms and identify radiological hazards
- Identify radiological exposures and its health hazards
- Identify controls to reduce radiological exposure levels
- Identify radiation waste reduction methods
- Describe LBNL radiological worker procedure for radiological emergencies

Course Instructional Materials:

- Online training that utilizes text, audio, video, interactions and assessment.
- Downloadable version of the course materials
- Online resources available within the course

Training Compliance Requirements: This course is designed to meet, in part, the requirements of 10CFR835 section 901 (b), which states that each individual shall demonstrate knowledge of radiation safety topics:

1. before being permitted unescorted access to radiological areas, and
2. before performing unescorted assignments as a radiological worker.

Other training, such as EH&S 432 or 438 may also be required depending on the work assignment.

Written Exam: Yes.

Students must pass end of module quizzes with a score of at least 80% to access final test.

Students must pass comprehensive multiple choice final test with a score of at least 80% to receive credit for the course.

Practical Exam: No

Retraining/Recertification: 2 years. Retraining is normally accomplished as part of the annual renewal of radiation work authorizations (RWA, SSA or RWP).

Challenge exam: A challenge exam may be taken, in lieu of the online training, by individuals with adequate prior training and experience in radiation protection. Contact the Radiation Control Manager (x6626) for information on taking the challenge exam.

WEB Resource: see LBNL EH&S Training Program web page @ <http://www.lbl.gov/ehs/html/training.htm>.