

Effective ALARA Programs

This 2-day course was developed for Health Physicists and Engineers who have the responsibility for designing, implementing, appraising and improving dose reduction (ALARA) programs at operating nuclear facilities. The course will focus on methods for reducing employee dose and minimizing contamination spread through: improved operating procedures and work control methods, use of traditional dose-reduction techniques, consideration of state-of-the-art methodology (robotics, protective clothing, remote dosimetry, etc.), use of engineered controls (ventilation, decontamination, contamination containments), ALARA goal setting and evaluation, and appraisal of program design and implementation. Classroom exercises and a discussion of case histories in a variety of nuclear environments will help attendees gain a broad understanding of "lessons learned" from other nuclear facilities, with an emphasis on improving the current ALARA program.

Topics

Introduction

- Review of Fundamental ALARA Terms
- Introduction to the ALARA Concept
- Purpose & Scope
- Philosophy
- ALARA as a Component of Health Physics Programs
- Decision Analysis
- ALARA Checklists

Administration of the ALARA Program

- Management
- Program Review & Appraisal
- Staffing
- Organization

Optimization of Radiation Protection

- Concept
- Cost-Benefit Analysis
- Interferences to Optimization
- Suggested Approach
- Case Studies

ALARA Goal Setting and Evaluation

- Setting Goals
- Achieving Goals
- Evaluating Goals

Effective ALARA Design

- Design Review (New Facilities)
- Design Review (Modifications to Existing Facilities)

Conduct of ALARA Operations

- Normal Operations
- Emergency Operations

THIS COURSE WILL HELP YOU ...

- Understand basic ALARA principles necessary for maximum dose reduction at your facility.
- Use cost benefit analysis in setting and achieving ALARA goals.
- Benefit from "lessons learned" from other ALARA programs in a broad spectrum of nuclear facilities.
- Minimize contamination spread through improved operating procedures and proper use of engineered controls.

Course Instructor

DR. RODICAN P. REED has over 30 years of experience in health physics. From 1992 to 2007, he was a Senior Health Physicist at the U.S. Nuclear Regulatory Commission (NRC) Technical Training Center. At NRC, he provided health physics training to NRC inspectors, Agreement State inspectors, and other Federal agencies. He was responsible for the uranium fuel cycle technology training curriculum, including uranium mining and milling, health physics, nuclear criticality safety, fire protection, integrated safety analyses (ISA's), and uranium enrichment technologies. He trained fuel facility inspectors and license reviewers as part of the inspector qualification program. He briefed NRC Commissioners, the Office of the Inspector General (OIG), the Atomic Safety and Licensing Board Panel (ASLBP), and the news media, in radiation protection and uranium fuel cycle technology. He developed post-graduate training in radiation protection for the International Atomic Energy Agency (IAEA), which is now in use world-wide.

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THE AMERICAN ACADEMY OF HEALTH PHYSICS (AAHP) HAS AWARDED THIS COURSE 16 CONTINUING EDUCATION CREDITS.
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