

# Effective ALARA Programs

March 3-4, 2025 ♦ Live Online Instruction

Course Fee: \$1195

If taking both ALARA Programs and Contamination Control, the course fee is \$1295



## DESCRIPTION

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.

## INSTRUCTOR

**Dr. RODICAN P. REED** has over 30 years of experience in health physics, including 15 years as 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. Dr. Reed also developed post-graduate training in radiation protection for the International Atomic Energy Agency (IAEA), which is now in use world-wide.



## HOW TO REGISTER ...

Visit our website at [www.tmscourses.com](http://www.tmscourses.com) and register online, or call 860-738-2440. Registration questions can be emailed to [info@tmscourses.com](mailto:info@tmscourses.com).