

Training Software



software

*monitoring
exposure records
access control*

PRD

Spill Response

NRRPT Exam Review

PRD-Principles of Radiation Detection

PRD is an interactive Windows® CD-ROM training program using graphics, animation and audio to capture the attention of the trainee. Principles of Radiation Detection describes in detail, the design, construction and operation of all types of radiation detection devices. Visualize the operation of a photomultiplier tube! Adjust the voltage source of a gas filled detector and see the effects on screen! Follow electrons and holes as they move through a semiconductor! All this and much more is just a mouse click away with the PRD module. Every step of the way the user is stimulated and informed by the program. To enhance this learning experience, our virtual mentor, Dr. Wilhelm Brainbender appears periodically to challenge and coach the user.

The PRD module is composed of four major sections:

- Gas Filled Detectors
- Scintillation Detectors
- Semiconductor Detectors
- Personnel Dosimetry

The entire system is objective based, and at the end of each section the user is presented with a 10 question multiple choice quiz. A course management system is included to allow tracking of student performance.

Spill Response Trainer

The spill response trainer was designed to be useable with little or no documentation. To use the application, simply start it and explore the lab by clicking on various items. Dialog boxes will pop up with various options, including a "Help" button, which provides guidance on how and why to perform certain tasks. The Spill Response Trainer follows the familiar mnemonic for spill response: SWIM. S: Stop the spill. W: Warn others. I: Isolate the area. M: Minimize your exposure. The objects in the lab provide the functionality to complete those actions.

Stop the spill - This is accomplished by using three absorbent wipes to cover the spill.

Warn others - This is accomplished by yelling out "SPILL!" by using the Speak Button. This step should be done almost immediately after the spill. Yelling after the spill has been picked up is too late.

Isolate the area - This can be accomplished in one of two ways: Barrier tape found in a bench drawer can be used or the door may be locked. If the barrier is removed before the spill is picked up, the spill is not isolated.

Minimize exposure - This is accomplished by using good contamination controls. When you touch the spill with your gloved or bare hand, contamination will be transferred. Anything you touch afterward will become contaminated. Use the pancake probe to spot check your hands periodically. Remove contaminated gloves. Decontaminate your hands by using the sink as soon as possible. Perform a detailed survey of the area after decontaminating the spill area.

NRRPT Exam Review

MJW has developed a National Registry of Radiation Protection Technologists (NRRPT) CBT exam review program. Unlike any other exam preparation program in the country, the NRRPT Exam Review is a fully interactive system that provides rapid, effective preparation for the NRRPT examination. The program includes extensive information on each required objective, and three, timed practice exams with feedback as well as graphics and animations to explain subject matter and aid in comprehension of abstract concepts.

The NRRPT Exam Review features include:

- Tutorials and three separate practice examinations based on the 25 objectives of the NRRPT Exam Review course.
- Each examination question includes comprehensive explanations.
- The course outline lets the student move easily through the program.
- An on-line glossary of terms and definitions which can be accessed at any time.
- Students can start and stop the program and return to any portion for review or testing.
- Report functions allow the administrator to evaluate student test results.
- Electronic copies of test results may be stored on disk or printed.
- Graphics, animation, photographs, audio narration and extensive user interaction make this an effective and enjoyable program to use.

The NRRPT Exam review in CD-ROM format allows students to train at their own pace, on their own schedule and in their homes or other convenient settings.

