

Radiological Control Technician Training

Practical Training Phase II



**Coordinated and Conducted
for the
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Introduction

Development of Job Performance Measures (JPMs)

The DOE suggested task worksheets are provided as a guide to develop Job Performance Measures (JPMs). These guides provide information on tasks common to many sites. Each site must complete a documented job evaluation to validate core and site specific tasks. JPMs should be developed following the DOE Guide to Good Practices and the Training Accreditation Program (TAP) manuals. All tasks identified in the job evaluation should be included in the overall practical training program.

1. The format of the JPM is flexible and should be tailored to each site and task as appropriate. Each JPM should include all the elements listed on the DOE suggested Task Worksheets.
2. All "Critical" task elements shall be identified on the JPM. A critical task element is defined as any element of the task that is deemed crucial to the satisfactory performance of the task. An element may be critical if its omission or improper execution:
 - a. Causes or could cause a serious injury or dangerous situation
 - b. Causes or could cause damage to any system or component to the extent that it prevents the system or component from being immediately available for its intended purpose
 - c. Results in incomplete task performance
 - d. Violates security
 - e. Results in an out of tolerance condition or measurement which prevents the equipment from meeting facility procedures or specifications
 - f. Violated a standard maintenance procedure such as improper use of a test equipment or and tools, etc. (this does not include performing procedure steps out of sequence)
 - g. Causes excessive delay(s) due to unnecessary troubleshooting, removal or replacement of components, or rejection of serviceable equipment.

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Introduction (continued)

Development of Training/Evaluation Standards (continued)

3. The instructor should list the questions the student will be asked before, during, and after the performance evaluation to confirm the student has the knowledge to perform the task in a safe and efficient manner.
4. The instructor shall list the steps the student must perform in order to pass the performance evaluation. Methods of accomplishment should be designated for each task. There are four possible methods of accomplishment.
 - P Perform the specified task using approved procedures and observing all applicable safety and administrative requirements. This includes a thorough discussion (usually prior to performing the task) addressing safety implications, elements involved, the effects on associated equipment or systems, and abnormal Situations which may arise while performing the task. This method of accomplishment is the most desirable level for performance testing.
 - S Simulate performance of the specific task. Using approved procedures, "walk through" the task and simulate all actual manipulations valves, switches, tools, etc) an employee would perform. Describe applicable safety and administrative requirements and the parameters meter readings, charts, measurements, etc) an employee would observe/monitor during actual performance of the task. Conduct the same discussion as required for a perform signature. Observe an individual performing the specified task. Conduct the same discussion as required for a perform signature.
 - D Discuss the specified task using applicable procedures and discussions as required to perform the task. Demonstrate knowledge of the task by describing the manipulations required and the parameters that may be expected to change. This method of accomplishment is the least desirable for performance testing.

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Introduction (continued)

**Development of
Training/Evaluation
Standards (continued)**

5. Simulate, observe, and discuss should be used only when perform is not feasible, such as in a high radiation area.
 6. Job Performance Evaluations shall be conducted by a trainer/evaluator who has received training in on-the-job training and/or evaluation techniques.
-

**Conduct Job Performance
Evaluation**

1. The student should request an evaluation from a trainer/evaluator.
 2. The trainer/evaluator reviews the appropriate documentation
 - a. Qualification standards
 - b. Standard operating procedures
 - c. Applicable Training Evaluation/Standard
 3. The trainer/evaluator verifies student prerequisites
 - a. Student has completed on-the-job training
 - b. Student has had adequate practice time
 4. The trainer/evaluator schedules the evaluation as time and facility conditions permit.
 5. The trainer/evaluator at the beginning of the evaluation, will as a minimum, provide the student with the following:
 - a. Ground rules (clear, complete instructions)
 - b. Review of task steps, if necessary
 - c. Review of acceptable performance standards and criteria
 6. The trainer/evaluator asks questions to verify the student's knowledge as required by the procedure, Training Evaluation/Standard, or qualification standard before the student is allowed to operate equipment. Once the instructor is sure the student understands the task, the student is allowed to perform it.
-

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Introduction (continued)

**Conduct Job Performance
Evaluation (continued)**

7. All performed or simulated steps must be accomplished without coaching from the trainer/evaluator.
8. Each step should have a grading system to indicate satisfactory or unsatisfactory completion.
9. Students shall have access during the evaluation to all tools, equipment/instruments, procedures, reference materials, and other assistance that would normally be available during task performance.
10. The trainer/evaluator may ask the student questions before, during, and after the evaluation to confirm the student's understanding and comprehension.
11. Any action or answer which would place the plant, system, or personnel in danger is an immediate cause for issuing an unsatisfactory performance evaluation, regardless of the acceptability of other actions and answers. The trainer/evaluator must be prepared to take control of the process at any point where the student's course of action would jeopardize the safety of personnel or equipment.
12. When the performance evaluation has been completed, the trainer/evaluator shall sign, date, and indicate on the JPM a final Satisfactory or Unsatisfactory decision. The student will also sign the JPM. Comments may be added by both the trainer/evaluator and student.

Qualification Area: Radiological Instrumentation Area
Next

Qualification Area: Radiological Instrumentation

Task 2-1	Complete a response check on portable hand held instruments.
Objective	Given each type of count rate and exposure/dose rate portable hand held instrument specific to your facility, a source, and documentation, complete a response test to assure proper operation of each instrument in accordance with facility procedures. (Each site must determine the following:) → Initial Conditions → Site Specific References → Initiating Cues → Standards
Materials Needed	Each type of portable contamination and radiation survey instrument at your facility, source(s), and documentation
Abnormal Conditions	Instrument not operable, cold temperatures, altitude corrections, static, magnetic, radio-frequency, etc.
Personnel/Equipment Safety	Electrical, radiological
Prerequisite Training	Fundamental Academics Training Site Academics Training: - Lesson 2.01 - Radiological Documentation - Lesson 2.08 - Radioactive Source Control - Lesson 2.16 - Radiation Survey Instrumentation - Lesson 2.17 - Contamination Monitoring Instrumentation

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Qualification Area: Radiological Instrumentation (continued)

Knowledge Requirements

- 1. Locate the applicable reference/operating procedure(s).
- 2. Discuss site procedures for control of instrument check sources that are not integral to the instrument.
- 3. State whether the instrument is a count rate or exposure/dose rate instrument.
- 4. State the documentation required for response testing of portable radiological instruments.
- 5. State which isotopes are used to response check beta/gamma count rate instruments, alpha count rate instruments, and exposure/dose rate instruments.
- 6. State required frequencies of response checks
- 7. Discuss how to determine the proper source to use for response checks.
- 8. Discuss how each instrument is positioned on the source for response checks.
- 9. Discuss ALARA concerns to consider during response checking portable dose rate instruments.
- 10. Discuss the documentation of response check results.
- 11. Discuss operational checks completed during a response check of portable radiological instruments.
- 12. Discuss out of tolerance conditions and associated actions if encountered.

Comments

Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.

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Qualification Area: Radiological Instrumentation (continued)

Performance Requirements	To be determined by the facility
Task 2-2	Complete a performance test on radiation detection counting equipment.
Objective	Given each type of scaler specific to your facility, applicable references and equipment, complete a performance test and establish operating parameters in accordance with operating procedures. (Each site must determine the following:) → Initial Conditions → Site Specific References → Initiating Cues → Standards
Materials Needed	Each type of scaler at your facility, calculator, source documentation
Abnormal Conditions	Instrument not operable, scaler settings inappropriate for conditions, high background, sample drawer contamination, depletion of purge gas
Personnel/Equipment Safety	Electrical, radiological

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Qualification Area: Radiological Instrumentation (continued)

Prerequisite Training

Fundamental Academics Training

Site Academics Training:

Lesson 2.01 - Radiological Documentation

Lesson 2.03 - Counting Errors and Statistics

Lesson 2.19 - Counting Room Equipment

Knowledge Requirements

- 1. Locate the applicable reference/operating procedure.
- 2. Explain the types of tests performed.
- 3. State the required frequencies of performance tests.
- 4. Explain the pre-operational checks performed prior to tests.
- 5. Discuss counter lower limit of detection/minimum detectable activity, as applicable.
- 6. Explain the purpose of counter reliability tests, e.g., the Chi-squared test and interpret test results, including out of tolerance results.
- 7. Explain efficiency test and interpret results.
- 8. Discuss out of tolerance conditions and associated actions when encountered.
- 9. Explain the documentation requirements.

Comments

Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.

Performance Requirements

To be determined by the facility

Qualification Area: Radiological Protection Next

Qualification Area: Radiological Protection

Task 3-1Perform a contamination survey.

Objective

Given applicable materials and an actual or simulated contamination area, perform a contamination survey and properly interpret the results for personnel protection, in accordance with facility procedures.

(Each site must determine the following:)

- Initial Conditions
 - Site Specific References
 - Initiating Cues
 - Standards
-

Materials Needed

Smears, wipes (including large area wipes as applicable), instruments, documentation.

Abnormal Conditions

Contamination outside of a controlled area, contamination in excess of posted limits, wet areas, uneven or porous surfaces, instrument contamination/failure

Personnel/Equipment Safety

Heat stress, cold stress, radioactive contamination, high noise areas, etc.

Prerequisite Training

Fundamental Academics Training
 Site Academics Training:
 Lesson 2.01 - Radiological Documentation
 Lesson 2.05 - Contamination Control
 Lesson 2.17 - Contamination Monitoring
 Instrumentation

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Qualification Area: Radiological Protection (continued)

Knowledge Requirements

- 1. Locate the applicable reference/operating procedure.
- 2. State when the various types of removable contamination surveys are required.
- 3. State the size of area to smear, and the smear media used, when performing the various types of removable contamination surveys.
- 4. State how the results are reported when performing a removable contamination survey.
- 5. Explain how to differentiate between fixed and removable contamination.
- 6. Explain how to conduct a direct scan survey for both beta/gamma and alpha contamination.
- 7. Explain how to convert from cpm to dpm for the instruments used in the survey.
- 8. Explain how to convert from cpm/probe area to dpm/100 cm² for the instruments used in the survey.
- 9. State the 10 CFR 835 contamination limits for Contamination and High Contamination Areas applicable to the site, based on the isotopes of concern.
- 10. State actions to take when contamination is found in excess of expected or allowable limits.
- 11. State how area survey results are communicated to personnel entering the area.
- 12. State site criteria for when a routine area radiological survey requires an update to the radiological status board.

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Qualification Area: Radiological Protection (continued)

Comments	Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.
Performance Requirements	To be determined by the facility
Task 3-2	Perform radiation surveys.
Objective	Given each dose rate survey instrument specific to your facility and an actual or simulated radiation area, perform a radiation survey to establish personnel beta, gamma, and neutron dose rates (as applicable) to assure personnel doses do not exceed allowable limits. (Each site must determine the following:) → Initial Conditions → Site Specific References → Initiating Cues → Standards
Materials Needed	Survey instrument(s), documentation
Abnormal Conditions	Instrument failure/saturation, ion-chamber filled with radioactive gas, unexpected high levels of radiation
Personnel/Equipment Safety	Unexpected high radiation fields

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Qualification Area: Radiological Protection (continued)

Prerequisite Training

Fundamental Academics Training

Site Academics Training:

Lesson 2.01 - Radiological Documentation

Lesson 2.11 - Radiological Work Coverage

Lesson 2.16 - Radiation Survey Instrumentation

Knowledge Requirements

- 1. Locate the applicable reference/operating procedure.
- 2. Describe the appropriate instruments for surveying a radiation field.
- 3. Explain the additional documentation used as background information for the area to be surveyed.
- 4. State the different types of radiation that may be detected by each instrument used in the survey.
- 5. Define general area, contact dose rate, hot spot, and streaming radiation.
- 6. State how beta and gamma dose rates are normally obtained and reported when using an ion-chamber survey instrument (RO-2 or equivalent).
- 7. State the 10 CFR 835 limits for Radiation, High Radiation, and Very High Radiation Areas.
- 8. Explain actions to be taken if abnormal conditions are encountered.
- 9. State how area survey results are communicated to personnel entering the area.
- 10. State site criteria for when a routine area radiological survey requires an update to the radiological status board.

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Qualification Area: Radiological Protection (continued)

Comments	Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.
Performance Requirements	To be determined by the facility.
Task 3-3	Obtain air samples.
Objective	Given a portable air sampler, applicable equipment, documentation, and a designated area assigned by the examiner, obtain an air sample, interpret the results by calculating the air activity, and implement personnel controls in accordance with facility procedure. (Each site must determine the following:) → Initial Conditions → Site Specific References → Initiating Cues → Standards
Materials Needed	Portable air sampler, filter, gloves, pump, extension cord, additional misc. equipment
Abnormal Conditions	Detection of airborne activity above site limits, malfunctioning air sampler, hazardous or restricted environments, filter dustloading, inappropriate filter media

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Qualification Area: Radiological Protection (continued)**Personnel/Equipment
Safety**Electrical, explosive environment, use of samplers
around water**Prerequisite Training**

Fundamental Academics Training
 Site Academic Training:
 Lesson 2.01 - Radiological Documentation
 Lesson 2.03 - Counting Statistics
 Lesson 2.06 - Air Sampling Program/Methods
 Lesson 2.18 - Air Sampling Equipment
 Lesson 2.19 - Counting Room Equipment

Knowledge Requirements

- 1. Locate the applicable reference/operating procedure.
- 2. State the types of assemblies and filter media available for use at your facility and the purpose for each.
- 3. State the types of airborne contaminants that may be sampled and the methods for collection and counting.
- 4. Identify major components and controls of each air sampler.
- 5. Discuss the operation of each type of air sampler.
- 6. List and explain when an air sample should be taken.
- 7. Describe how to take an air sample.
- 8. List the minimum volume of air to be sampled for each type of sample.
- 9. Determine the Minimum Detectable Activity of an air sample.
- 10. Determine activity on the sample media.

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Qualification Area: Radiological Protection (continued)

**Knowledge Requirements
(continued)**

- 11. Calculate an air activity concentration given the necessary information.
 - 12. List plant specific limiting isotopes and the air concentrations of each requiring respiratory protection.
 - 13. Determine Radon/Thoron activity.
 - 14. State actions taken in the event of detected airborne contamination in excess of expected or allowable limits.
-

Comments

Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.

**Performance
Requirements**

To be determined by the facility.

Task 3-4

Perform a leak test on a radioactive source.

Objective

Given a radioactive source and materials, perform a leak test on the source in accordance with facility procedure.

(Each site must determine the following:)

- Initial Conditions
 - Site Specific References
 - Initiating Cues
 - Standards
-

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Qualification Area: Radiological Protection (continued)

Materials Needed	Instruments, smears, documentation, tongs, if applicable
Abnormal Conditions	Lost source, contaminated/leaking source
Personnel/Equipment Safety	High radiation, contamination
Prerequisite Training	Fundamental Academics Training Site Academics Training: Lesson 2.01 - Radiological Documentation Lesson 2.08 - Radioactive Source Control Lesson 2.17 - Contamination Monitoring Instrumentation Lesson 2.19 - Counting Room Equipment
Knowledge Requirements	→ 1. Locate the procedure for completing this task. → 2. Discuss the safety precautions used when performing this task. → 3. State the requirements for the source to be considered satisfactory (not leaking). → 4. State the documentation requirements.
Comments	Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.

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Qualification Area: Radiological Protection (continued)

Performance Requirements To be determined by facility.

Task 3-5Post a radiological area to reflect associated hazards.

Objective

Given applicable equipment, supplies, and an actual or simulated radiation and contamination area, post the areas to reflect associated hazards to assure proper personnel protection in accordance with facility procedures.

(Each site must determine the following:)

- Initial Conditions
 - Site Specific References
 - Initiating Cues
 - Standards
-

Materials Needed

Instrumentation, barriers (e.g., rope, tape, chain, etc.), signs, protective clothing, ribbons, stanchions, documentation, step off pads as appropriate, survey map(s), blank status board as appropriate, instructions for donning and doffing protective clothing instructions for self-survey as appropriate

Abnormal Conditions

Action that would require an emergency response, contamination in an uncontrolled area

Personnel/Equipment Safety

Improperly posted areas, possible internal and external contamination, restricted access for emergency egress

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Qualification Area: Radiological Protection (continued)

Prerequisite Training

Fundamental Academics Training
 Site Academics Training:
 Lesson 2.05 - Contamination Control
 Lesson 2.10 - Access Control and Work Area Setup

Knowledge Requirements

1. Locate the applicable reference procedure.
 - 2. Discuss facility specific radiological posting requirements (e.g., update, types, limits).
 - 3. Explain the documentation requirements.
 - 4. State how area survey results are communicated to personnel entering the area.
 - 5. State site criteria for when a routine area radiological survey requires an update to the radiological status board.
-

Comments

Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.

Performance Requirements

To be determined by the facility.

Task 3-6

Perform a radioactive material shipment survey.

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Qualification Area: Radiological Protection (continued)**Objective**

Given a radioactive material shipment scenario, the student shall perform all radiological surveys necessary to package, ship or receive a radioactive package. Document the results in accordance with applicable shipping limits and facility procedures.

(Each site must determine the following:)

- Initial Conditions
 - Site Specific References
 - Initiating Cues
 - Standards
-

Materials Needed

Instruments, smears, documentation

Abnormal Conditions

Performing the survey in adverse weather conditions, radiation/contamination in excess of DOE/site limits, package integrity or inventory in question, radiation/contamination in excess of DOT regulations

Personnel/Equipment Safety

Dropping of equipment, climbing

Prerequisite Training

Fundamental Academics Training
 Site Academics Training:
 Lesson 2.01 - Radiological Documentation
 Lesson 2.05 - Contamination Control
 Lesson 2.08 - Radioactive Source Control
 Lesson 2.12 - Shipment/Receipt of Radioactive Material
 Lesson 2.16 - Radiation Survey Instrumentation
 Lesson 2.17 - Contamination Monitoring Instrumentation

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Qualification Area: Radiological Protection (continued)

Knowledge Requirements

- 1. Locate and discuss the procedures used for the packaging, shipping and receipt of radioactive material.
 - 2. Explain the appropriate equipment for shipment packaging and surveys.
 - 3. Discuss the different types of packaging, and the limits associated with each.
 - 4. State the survey requirements for each type of package and the necessary documentation required for these surveys.
 - 5. Define different types of labeling, such as Transportation Index, and explain how they are determined and documented.
 - 6. Explain the terms Exclusive and Non-Exclusive Use, Open and Closed Transport Vehicles, Low-specific Activity and Limited Quantity, Route Controlled, and the radiological limits associated with these categories.
 - 7. Explain the labeling required for shipping radioactive material, i.e., White I, Yellow II, Yellow III, LSA, Limited Quantity, and UN Numbers.
 - 8. Discuss emergency response associated with shipping onsite and offsite.
-

Comments

Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.

Performance Requirements

To be determined by the facility.

Qualification Area: Emergency Preparedness Next

Qualification Area: Emergency Preparedness

Task 4-1 Respond to a high airborne activity alarm (e.g., Continuous Air Monitor alarm).

Objective Given a scenario applicable to your facility, the student must obtain necessary equipment and material to properly respond to a continuous air monitor (CAM) alarm to demonstrate proficiency in an emergency situation and in accordance with facility emergency procedures.

(Each site must determine the following:)

- Initial Conditions
 - Site Specific References
 - Initiating Cues
 - Standards
-

Materials Needed As appropriate

Abnormal Conditions Facility specific

Personnel/Equipment Safety Internal contamination, spread of contamination outside of a controlled area, improper ventilation, improper use of respiratory equipment

Prerequisite Training Fundamental Academics Training
Site Academics Training

Knowledge Requirements → 1. Locate the applicable reference/procedure.

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Qualification Area: Emergency Preparedness (continued)

**Knowledge Requirements
(continued)**

- 2. State the initial response actions for CAM alarms.
 - 3. Discuss personal protective equipment used In responding to a CAM alarm.
 - 4. Discuss potential causes for CAM alarms.
-

Comments

Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.

**Performance
Requirements**

To be determined by the facility.

Task 4-2

Respond to an uncontrolled release of radioactive material (e.g., radioactive spill, stack alarm)

Objective

Given a scenario applicable to your facility, the student must obtain necessary equipment and material to properly respond to a radioactive spill and to demonstrate proficiency in an emergency situation in accordance with facility emergency procedures.

(Each site must determine the following:)

- Initial Conditions
 - Site Specific References
 - Initiating Cues
 - Standards
-

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Qualification Area: Emergency Preparedness (continued)

Materials Needed	As appropriate
Abnormal Conditions	Facility specific
Personnel/Equipment Safety	External and internal contamination, spread of contamination outside of a controlled area
Prerequisite Training	Fundamental Academics Training Site Academics Training
Knowledge Requirements	→ 1. State the applicable reference/procedure. → 2. State the immediate actions required for a spill. → 3. List the items required to respond to a radioactive spill. → 4. List the primary precautions an RCT must follow when responding to a radioactive spill. → 5. Discuss how the immediate actions differ when the spill involves fissile material. → 6. Discuss how the immediate actions differ when the spill involves dry radioactive material, mixed hazardous material, or fires involving radioactive material.
Comments	Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.

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Qualification Area: Emergency Preparedness (continued)

Performance Requirements: To be determined by the facility.

Task 4-3 Respond to a radiation alarm (e.g., remote area monitor, area radiation monitor).

Objective Given a scenario applicable to your facility, the student must properly respond to an area radiation monitor and demonstrate proficiency in an emergency situation in accordance with facility emergency procedures.

(Each site must determine the following:)

- Initial Conditions
 - Site Specific References
 - Initiating Cues
 - Standards
-

Materials Needed As appropriate

Abnormal Conditions Facility specific

Personnel/Equipment Safety High radiation exposure

Prerequisite Training Fundamental Academics Training
Site Academics Training

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Qualification Area: Emergency Preparedness (continued)

Knowledge Requirements

- 1. State the purpose of area radiation monitor alarms.
 - 2. State the locations for the area radiation monitor alarms at your facility.
 - 3. Locate and discuss the procedure for responding to an area radiation monitor alarm.
 - 4. Discuss the safety precautions required when responding to an area radiation area monitor alarm.
 - 5. Distinguish between criticality alarm and area radiation alarm response.
-

Comments

Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.

Performance Requirements

To be determined by the facility.

Task 4-4

Respond to an injured person located in a radiological area.

Objective

Given a scenario applicable to your facility, the student must properly respond to an injury in a radiological area and demonstrate proficiency in an emergency situation in accordance with facility emergency procedures.

Continued Next Page

Qualification Area: Emergency Preparedness (continued)

Objective (continued)	(Each site must determine the following:) → Initial Conditions → Site Specific References → Initiating Cues → Standards
Materials Needed	As appropriate
Abnormal Conditions	Facility specific
Personnel/Equipment Safety	Biohazards, internal/external exposure, spread of contamination
Prerequisite Training	Fundamental Academics Training Site Academics Training
Knowledge Requirements	
→	1. State the item of primary concern when an injury occurs in a radiological area.
→	2. State the factors that affect the decision to move an injured person in a radiological area.
→	3. List the practices to follow when removing a worker that has sustained a minor injury while working in a radiological area.
→	4. State radiological responses in a life-threatening situation and a non-life-threatening situation. Compare the responses of radiological control in each.
→	5. State the factors that affect the decision for exposing rescue personnel.

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Qualification Area: Emergency Preparedness (continued)

Comments	Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.
Performance Requirements	To be determined by the facility.
Task 4-5	Direct and monitor personnel decontamination.
Objective	Given a scenario applicable to your facility, the student must direct and monitor personnel decontamination and to demonstrate proficiency in an emergency situation in accordance with facility emergency procedures. (Each site must determine the following:) → Initial Conditions → Site Specific References → Initiating Cues → Standards
Materials Needed	Instruments, decontamination supplies and chemicals, documentation
Abnormal Conditions	Injury, inadequate decon facilities

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Qualification Area: Emergency Preparedness (continued)**Personnel/Equipment
Safety**

Skin irritation, possible injuries

Prerequisite TrainingFundamental Academics Training
Site Academics Training**Knowledge Requirements**

- 1. Discuss the facility specific decontamination supplies and inventory procedures.
- 2. List the cleaning agents used for decontaminating skin and hair.
- 3. Discuss facility specific policies and procedures for personnel decontamination.
- 4. State the actions to be taken in the event that contamination cannot be removed without inflicting damage to body tissue.
- 5. State when nasal smears are required to be taken.
- 6. Discuss the actions to be taken in the event of suspected internal contamination.
- 7. Identify cleansing agents used for nasal irrigations as applicable.

Comments

Classroom or OJT lessons to support the above requirements should be developed by each site to meet their individual needs. Some information is provided in the site academic lesson plans referenced.

**Performance
Requirements**

To be determined by the facility.