

RRI's Advanced Class 7 Packaging Workshop



Course 306

Length:	2 days					
Target:	Personnel responsible for, or involved with, the creation of the packaging purchase specification; packaging selection; packaging inspection; packaging filling, assembly and closure; and documentation					
	surrounding such p	ackaging.				
Prerequis		ardous Materials & Rac & 203, or Course 303)	dioactive Materials Tra	nsport Worksh	ops	
Intensity:	Mild	Medium	Challenging	Extre	me	
Materials	s: RRI provides all training materials including the 49 CFR 100-185 and applicable letters from the regulators. A course completion certificate is provided to each participant.					
Objective	es & Topics:					

Module 1: General Packaging and Packaging Requirements – Ground

State the minimum design requirements prescribed for packages intended for ground transport of radioactive materials.

- 1. Apply the requirements for forbidden materials and packages to Class 7 packages.
- 2. State the general requirements for all packagings and packages.
- 3. State the additional requirements for all non-bulk packagings and packages.
- 4. State the additional requirements for all bulk packagings and packages.
- 5. State the general design requirements applicable to all Class 7 packagings and packages.

Module 2: Additional Package and Packaging Requirements – Air

State the additional design requirements prescribed for packages intended for air transport of radioactive materials.

- 1. Identify the additional design requirements applicable to all packagings and packages intended for transport by air.
- 2. Identify the additional design requirements applicable to Class 7 packagings and packages intended for transport by air.

Module 3: Industrial Package Design Requirements

State the design requirements prescribed for Industrial Packages intended for transport of radioactive materials.

- 1. State the design requirements applicable to IP-1 packages.
- 2. State the design requirements applicable to IP-2 packages.
- 3. State the design requirements applicable to IP-3 packages.

Module 4: Type A Package Design Requirements

State the design requirements prescribed for Type A packages intended for transport of radioactive materials.

- 1. Identify the design requirements for Type A packages intended for solid contents.
- 2. Identify the design requirements for Type A packages intended for liquid contents.
- 3. Identify the design requirements for Type A packages intended for gases.
- 4. State the two additional consideration that may affect design of a Type A package.



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Module 5: Type B Package Design Requirements

State the design requirements prescribed for Type B packages intended for transport of radioactive materials.

- 1. Identify the general requirements for Type B packages designed to meet normal conditions of transport.
- 2. State the differences between Type A package design standards and the general standards for Type B packages designed to meet normal conditions of transport.

Module 6: Package Test Procedures

Summarize the test procedures for packages intended for the transport of Class 7 material.

- 1. Recognize the difference between the responsibilities for Class 7 package manufacturers and users of such package.
- 2. List the tests required for a given Class 7 package.
- 3. State the concerns for selecting a Class 7 package test facility.
- 4. Recognize the performance tests required for Class 7 packages subject to normal conditions of transport.
- 5. Identify the pass criteria for packages tested to normal conditions of transport.
- 6. Recognize the performance tests required for Class 7 packages subject to hypothetical accident conditions.
- 7. Identify the pass criteria for packages tested to hypothetical accident conditions.
- 8. List four methodologies for demonstrating compliance to the ability of a Class 7 package to meet performance test requirements.
- 9. Appreciate the records and documentation required for a given Class 7 package type.

Module 7: <u>Selection of Optimal Package Types</u>

Select the package type options for a given radioactive material.

- 1. Select appropriate package type(s) for the material, based on content limits and material type.
- 2. Recognize the constraints imposed by the Regulations for the radioactive material package types.
- 3. Recognize the advantages in packaging which may result from classifying material as LSA material or objects as SCO.
- 4. Recognize the additional constraints imposed by the regulations on fissile material.
- 5. Recognize the constraints for used Type B packaging for <Type B activities.

Module 8: Quality Assurance and Other Considerations

Recognize the importance of a quality assurance program and other considerations in all aspects of radioactive materials packaging and transport.

- 1. List the minimal elements important to a package user's QA program.
- 2. State the importance of each QA element in a package user's program.
- 3. Identify the necessary Competent Authority notifications required for the use of a given package.