

Course 603 – Syllabus

Length: 4 days

Target: Waste generators, managers, and compliance personnel who are responsible for complying with or overseeing the compliance of the RCRA hazardous waste characterization, storage, operations and land disposal restrictions regulations.

Prerequisite: None

Intensity: ___Mild X Medium ___Challenging Extreme

Objectives & Topics:

Module 1: Introduction to the RCRA Waste Regulations

Define the objectives, scope and applicability of the EPA RCRA hazardous waste regulations.

1. Explain, in general terms, what is RCRA.
2. Recognize the other Laws/Acts that interact with RCRA waste management requirements.
3. Recognize the difference between State adoption and State authorization.
4. Identify the layout of the RCRA hazardous waste regulations.
5. Locate the definition of terms associated with the RCRA waste regulations.

Module 2: Definition and Designation of Solid and Hazardous Waste

Determine if, and to what extent, a given waste is subject to the RCRA hazardous waste regulations.

1. Illustrate the flow of the general thought process for defining a waste.
2. Identify the requirements for waste determinations.
3. Define solid waste.
4. Apply exemptions/exclusions to the definition of solid waste.
5. Define hazardous waste.
6. Apply exemptions/exclusions to the definition of hazardous waste.
7. Characterize and designate, by assigning waste codes, a given waste.
8. Recognize the importance of the “point of generation.”

Module 3: Special Wastes

Identify those wastes that are managed under an alternative management system.

1. Explain that materials requiring “sanitization” do not meet the definition of waste.
2. Identify the point of generation of waste for materials destined for sanitization.
3. Define “universal wastes”.
4. Identify how universal wastes are characterized for purposes of waste management.
5. Define “used oil”.
6. Identify how used oil is characterized for purposes of waste management.
7. Define “regulated asbestos containing material”.
8. Identify how asbestos is characterized for purposes of waste management.
9. State those materials/wastes that are commonly identified as being ‘recycled’.
10. Identify the disposition of common recyclable materials.
11. Explain the difference between LLW and MLLW.

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Module 4: Storage and Management of Wastes

Recognize the waste management requirements for a given accumulation or storage area.

1. List the waste accumulation/storage types.
2. Identify the purpose for a <55-gallon accumulation site.
3. Explain the waste management controls necessary to have a <55-gallon accumulation site.
4. Select the operating conditions that must be met for a <55-gallon accumulation site to be in compliance.
5. Identify the purpose for a ≤90-day waste site.
6. Explain the waste management controls necessary to have a ≤90-day waste site.
7. Select the operating conditions that must be met for a ≤90-day waste site to be in compliance.
8. List the pros and cons between a <55-gallon accumulation site and ≤90-day waste site.
9. Explain what a RCRA hazardous waste management Permit is.
10. Explain the waste management controls that must be met for compliant operations of a given permitted storage site.
11. Select the operating conditions that must be met to operate a permitted storage site.
12. Describe the differences in the requirements and management controls for RCRA hazardous waste and non-RCRA hazardous waste storage.
13. Define, in general terms, “treatment” as it applies to RCRA hazardous waste management.
14. Explain why treatment of hazardous waste must be carefully considered before starting the operation.
15. Identify common waste management/operations that, although appear be treatment, are allowed in non-permitted processing units.
16. Describe the differences in the requirements and management controls for Universal Waste storage.
17. Describe the differences in the requirements and management controls for Used Oil storage.
18. Describe the differences in the requirements and management controls for PCB waste ballast storage.
19. Describe the differences in the requirements and management controls for storage or hazard and non-hazardous Recyclable Materials.
20. Describe the differences in the requirements and management controls for Asbestos waste storage.
21. Describe the differences in the requirements and management controls for Scrap Metal storage.
22. State the container management requirements associated with a given accumulation/storage site.

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Module 5: The LDRs and Treatment Standards

Explain the LDR requirements applicable to a given hazardous waste.

1. State the objectives of the LDR regulations.
2. Define terms specific to the LDR regulations.
3. Recognize the layout of the LDR regulations.
4. Explain the term “Best Demonstrated Available Technology”.
5. Decipher information from the LDR treatment table.
6. Identify the required sampling technique for a given waste.
7. Apply a given waste code from the Point of Generation.
8. Apply the requirements for an Underlying Hazardous Constituent.
9. State available treatment standard exemptions and exclusions.

Module 6: Selecting the Treatment Standards

Select the applicable LDR treatment requirement(s) for a given hazardous waste.

1. Explain the “thought process” for selecting the appropriate treatment standard(s).
2. Explain the prohibition on dilution of wastes.
3. Select the optimal treatment plan for a given waste.

Module 7: Miscellaneous Treatment Options

Describe the alternate LDR treatment options available for hazardous wastes..

1. Identify the alternate treatment options for labpack wastes.
2. Identify the alternate treatment options for contaminated soils.
3. Identify the alternate treatment options for hazardous debris.
4. Identify the alternate management options for used oil.
5. Identify the alternate management options for universal wastes.
6. Identify the alternate treatment options for radioactive-mixed waste.

Module 8: Other Land Disposal Restrictions Requirements

Determine the management requirements applicable to the LDR regulations..

1. Determine the LDR requirements for treatment residues.
2. Explain the requirements concerning the restricted waste storage prohibition.
3. Select the appropriate LDR paperwork for a given waste.
4. Select the information that must appear of the appropriate paperwork for a given LDR waste.

Module 9: Waste Avoidance, Recycling, and Processing Activities

Recognize the common waste avoidance, recycling, and processing activities, and the exclusions or special allowances for these material/wastes.

1. Recognize the difference between “waste avoidance” and “waste recycling”.
2. Explain the purpose of Pollution Prevention (P2).
3. Identify common waste avoidance opportunities.
4. List the more common materials and waste recycled.
5. State the options and requirements for recycling spent lead acid batteries.
6. State the options and requirements for recycling precious metals.
7. State the options and requirements for recycling scrap metal.
8. Identify the exceptions and requirements for the management of empty containers.