

# HAZARDOUS WASTE MANAGEMENT

## Study Questions

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Study questions are designed to reinforce your understanding of the lesson material. Please create a Microsoft Word document and submit your completed study questions to the instructor via email.

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### Study Questions- Lesson 1

1. Define hazardous waste
  2. List 5 F1 list wastes
  3. List 5 K1 list wastes
  4. List 5 corrosive materials
  5. List 5 reactive materials
  6. What is the largest hazardous waste material generated?
  7. What is the largest RCRA material generated?
  8. List 5 municipal wastes
  9. Why are industrial companies reluctant to emit hazardous waste?
  10. Why is landfill no longer the preferred disposal option?
  11. What are the benefits of the hazardous waste rating system presented in the paper
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### Study Questions- Lesson 2

1. Define toxicity
  2. Define LD<sub>50</sub>
  3. Why are infectious wastes harmful?
  4. Define bioaccumulation
  5. Explain the difference between risk assessment and risk management
  6. Explain the risk/failure cost
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### Study Questions- Lesson 3

1. Define RCRA
2. Per the RCRA, what is the criteria for waste?
3. Hazardous waste generators must comply with \_\_\_\_\_ ?
4. Define UST

5. Briefly discuss 3 penalties for RCRA violations
  6. Briefly discuss the Clean Air Act
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#### **Study Questions- Lesson 4**

1. What are the 4 criteria for hazardous waste?
  2. Briefly discuss 2 EPA test methods for characterizing hazardous waste
  3. List 5 constituents found in landfill waste
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#### **Study Questions- Lesson 5**

1. Define pollution prevention
  2. Define waste minimization
  3. Define waste reduction
  4. Briefly discuss the pollution prevention hierarchy
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#### **Study Questions- Lesson 6**

1. Briefly discuss an example of physical treatment
  2. Briefly discuss an example of chemical treatment
  3. Briefly discuss an example of thermal treatment
  4. Briefly discuss an example of biological treatment
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#### **Study Questions- Lesson 7**

1. Per the NFPA hazard classification triangle. Water would be classified as?
  2. Per the NFPA hazard classification triangle. Methanol would be classified as?
  3. Per the DOT hazard classification. Formaldehyde would be classified as?
  4. Per the DOT hazard classification. Bleach would be classified as?
  5. List 2 examples of secondary containment
  6. What is the Title 49, Parts 100-185 of the Code of Federal Regulations of the Hazardous Materials Transportation Act and the Federal Hazardous Materials Regulations (FHMR)?
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## **Study Questions- Lesson 8**

1. Define remediation
  2. What is the purpose of remediation?
  3. List the 3 categories
  4. Define bioremediation
  5. Briefly discuss environmental assessment methods such as life cycle assessments
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## **Final Project**

### **Environmental Justice Case Study: North River Sewage Treatment Plant**

#### **Case Study Link**

1. Please review the case study
2. Briefly discuss issues that you see within the case study
3. Using the information learned in this course, what recommendations would you make to improve the environmental situation within the community