

Hazardous Waste Treatment (RV-10857)

Contact Hours

1 hour

Course Description

Hazardous waste can exist in liquid, solid or slurry forms. It may originate in a current manufacturing process or from clean-up of an abandoned site. This course will review the background and design considerations for different methods of treating hazardous waste.

Course Objectives

After successfully completing this course, you will be able to:

- Analyze five major sectors of chemical treatment for industrial and municipal wastewater streams, sludge and solids, and learn how they are utilized.
- Differentiate between four major types of physical treatment processes and summarize how they are used.
- Discuss the important factors and concepts in biological treatment, along with processes and types of reactors used.
- Describe the steps involved in incineration, main factors controlling incineration effectiveness, and effluent standards for incineration.
- State the methods and mechanisms utilized in stabilization.
- Describe five emerging technologies used in hazardous waste treatment.

Outline

- Introduction – 2 minutes
- Chemical Treatment – 10 minutes
- Physical Treatment – 9 minutes
- Biological Treatment – 15 minutes
- Stabilization, Solidification, and Land Disposal – 7 minutes
- Emerging Technologies – 4 minutes
- Summary – 2 minutes