Title

Drinking Water Quality – Water Treatment Technology (RV-11352)

Agenda

- Introduction – 1 minute
- Water Treatment Processes – 2 minutes
- Water Sources – 5 minutes
- Water Quality Parameters – 4 minutes
- Terms & Definitions for Drinking Water Quality – 4 minutes
- Conventional Water Treatment – 4 minutes
- Water Treatment Process – 7 minutes
- Coagulation – 4 minutes
- Chemical Safety – 3 minutes
- Flocculation – 8 minutes
- Sedimentation – 8 minutes
- Filtration – 11 minutes
- Conclusion – 1 minute

Objectives

Course Description

This course presents key information regarding water treatment technology of drinking water, including characteristics and capabilities of water treatment processes, source water quality, distribution system considerations, and residuals management. Technical personnel in the design, engineering, maintenance and operations areas of facilities will find this information critical to the successful operation of drinking water related facilities. This course addresses critical factors that affect health, safety, and welfare of the population being served by the water treatment system.

Course Objectives

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

- Name the various processes utilized for water treatment
- Explain the principles behind major treatment processes – coagulation, flocculation, sedimentation, flotation
- Identify the methods used for media filtration related to water treatment
- Describe the requirements for special water treatment processes – chemical, disinfection, precipitation, natural treatment