

## **Water Treatment: Disinfection- Part 2**

### **Learning Objectives**

In this lesson, we'll go over the factors that influence disinfection processes and some of the mechanics and chemistry that are involved in the disinfection process.

### **Scope**

In this course you will learn about:

#### **The factors that influence disinfection**

- pH
- Temperature
- Turbidity
- Organic matter
- Inorganic matter
- Contact time

#### **Disinfection Chemistry**

- Chlorine Disinfection
- Chloramines
- Dosage, Demand & Residual
- Total Chlorine vs. Free Chlorine
- Breakpoint Chlorination

#### **Disinfection Mechanics**

- Chlorine Gas
- Calcium Hypochlorite
- Sodium Hypochlorite
- Chemical Feed Systems
- Distribution System Disinfection Practices

### **Training Methods**

*Our training methods that will be applied, are interactive learning through the videos displayed on our website, WaterLMS. Attendees will have to take quizzes and tests, as well as being interactive throughout the whole duration of the course. They can not skip forward, and is required to be active for the duration of the course, being able to get the full experience out of our courses and prepare them for the real duties they will encounter.*

*Courses can be taken in a learning plan, all together or be taken individually.*

## **Course Content**

- Water Treatment: Disinfection
- Water Treatment: Disinfection Final Exam
- General Course Survey

## **Course Outline**

1. *Water Treatment: Disinfection* 1 hrs

*Self- Paced* *Total 1 hrs*

## **Student Assessment**

*Upon class completion, students will be tested using an open question & answer session, to ensure there is a general understanding of the materials presented during the course.*

## **Instructor Bio:**

*Is strictly online, so no instructor is needed.*

***Please reach out if you have any questions, or is wanting to take the course yourself, to provide a better understanding of the ones we provide.***