

Course 1: EL320 – Disinfection Basics
AWWA Self-paced eLearning Course

Description & Learning Objectives
<p>Course Title: Disinfection Basics</p>
<p>Course Learning Objectives: As a result of this eLearning course, you will:</p> <ol style="list-style-type: none">1. Explain why disinfection is important.2. Determine the best disinfection option for a treatment goal.3. Understand the factors of chlorination and when chloramination is the next option.4. Identify the benefits and drawbacks of Chloramination.5. Articulate disinfection process strategies for your utility.
<p>Long Description: Disinfection is an essential part of keeping water safe whether in swimming pools or hot tubs, or the water we drink. Disinfection is an essential part of a water treatment strategy. This course covers the process of drinking water disinfection at a utility, starting with an overview of waterborne pathogens commonly found in source waters. Using this knowledge, learners will then cover the complexities of water chemistry as related to the disinfection process. Using these data, learners will also learn about disinfection byproducts (DBPs), which can result from different disinfection processes. This course covers both chlorination and chloramination from both a process overview and a chemistry perspective. Finally, learners will learn about associated metrics of success and apply what they learn in a series of realistic disinfection scenarios.</p>
<p>Short Description (1 sentence): Disinfection is a unit treatment process used by drinking water facilities to make the water we consume safe. This course focuses on the disinfection process, associated chemistry, and how to recognize the possible production and mitigation of disinfection byproducts (DBPs) in a utility.</p>
<p>Blurb (10-15 words – to be used on the website to provide a quick preview): Disinfection is a unit treatment process essential to the water treatment process.</p>

Author Biography:

American Water Works Association collaborates with industry experts and peers to develop all self-paced courses. Self-paced courses are delivered exclusively online, and progress is driven solely by the student. This format allows the student to move through course content at their own pace, taking into consideration the individual's knowledge level and capacity.

Self-paced courses can be completed anytime during a 90-day period after registration. These courses may include presentations, pre-recorded audio, supporting articles, online learning activities, videos, quizzes and evaluations.