

Slow Sand Filtration Agenda*

9:00 AM – 10:15 AM

Introduction to a “Timeless Technology”

This segment will provide an overview of development and use of slow sand filtration.

Removal Mechanisms & Expected Performance

Physical and biological mechanisms that play a key role in the performance of slow sand filters are discussed in this segment. Removal of various contaminants that one can expect from proper functioning filters will also be covered.

10:15 AM – 10:30 AM Break

10:30 AM - Noon

Critical Variables & Raw Water Quality

Critical process variables will be introduced that can greatly impact the removal of pathogens like Cryptosporidium and Giardia.

Noon – 1:00 PM (lunch on your own)

1:00 PM – 2:15 PM

Design

As with any filtration mechanism, there are key design features that can greatly impact operations and maintenance. This section will not only cover initial construction, but media specifications for re-sanding existing filters.

2:15 PM – 2:30 PM Break

2:30 PM – 4:00 PM

Operations

Flow control and cleaning practices will be covered in this section.

Regulatory Requirements

This part of the class will focus not only on monitoring and reporting requirements for filtration, but will also cover determining adequate disinfection.

4:00 PM End

**Agenda is subject to change based on the level of questions and/or discussions that occur and/or any treatment plant tour that may be incorporated into the training. Treatment plant tours are subject to the proximity of the class to a slow sand filtration plant, availability of transportation, and willingness of operations staff to provide a tour. In any case, a minimum of 6 hours of instruction (0.6 CEU) will be provided.*