

**Course Title:** **Current Studies In Water Plant Operations**

**Contact Hours:** 7.0

**CEU Value:** 0.7

**Course Description:**

This course will enable participants to apply concepts of course material in the day-to-day operation of their facility. An emphasis is placed on emerging pathogens, reducing disinfection by-products and exotic contaminants.

**Areas of study include:**

- Types of treatment processes
- Definitions and application of conventional treatment, direct filtration, advanced treatments
- Coagulation and “Enhanced Coagulation”
- Flocculation – “Sweep” vs “Particle Destabilization”
- Clarification/Sedimentation – Solids Removal
- Filtration
- Filter maintenance, inspection and media cleaning
- Applied aluminum chemistry
- Ultraviolet Irradiation and Advanced Oxidation
- Tastes and Odours in Drinking Water

This course is delivered in conjunction with *Treatability Studies*.