

THREE Day Water Certification Review: S1, S2



1.6 CECs, Water Technical (Pending EGLE Approval)

You must attend the entire class to earn the CECs

Michigan Rural Water Association has compiled review courses for those planning to take the water treatment and distribution Certification Test. The course will be instructed by an experienced water operator. The course content has been structured based on the EGLE study guide for waterworks operator certification exams. Concentration will be placed on reviewing math skills, system maintenance, chlorination, sampling, and other areas necessary to help you study for your certification exam. During this review course, your instructor will answer your questions and provide tips on test-taking.

Agenda Day 1: S1, S2	
8:30am – 10am	Areas, volumes, conversions and how to use formulas
10:15am – 11:45am	Chemical feed: calculating pounds and ppm of chlorine Hydraulic calculations including flow and velocity rates
11:45am	Lunch (provided)
12:30pm – 2pm	Horsepower calculations, including electrical cost calculations PSI and specific well capacity calculations
2:15pm – 3:45pm	Bernoulli equation, allowable leakage and detention time calculations
3:45pm	Adjourn

**3
DAYS**

Agenda Day 2: S1, S2	
8:30am – 10am	Legislation and Regulations as described and outlined in the SDWA
10:15am – 11:45am	Bacteriological Sampling and Analysis
11:45am	Lunch (provided)
12:30pm – 2pm	Disinfection of Drinking Water Pumps and Motors basic maintenance and troubleshooting Type and application of water meters
2:15pm – 3:45pm	Cross Connections, correct device for the situation. Governing rules and regulations for cross connection
3:45pm	Adjourn

Agenda Day 3: S1, S2	
8:30am – 10am	Water System Safety: trenching, confined space, and overall safe practices
10:15am – 11:45am	Distribution System Materials, pipes, clamps, fire hydrants, and valves etc. Special distribution Problems: A review of typical and atypical problems commonly encountered in the operation of municipal drinking water systems.
11:45am	Lunch (provided)
12:30pm – 2pm	Management of water distribution systems, including customer relations Emergency response plans Record keeping
2pm	Adjourn