

# TWO Day Water Certification Review: **Limited Treatment**



## 1.2 CECs, Water Technical

*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: Limited Treatment

|                   |  |
|-------------------|--|
| 8:30am – 10am     | Areas, volumes, conversions and how to use formulas  |
| 10:15am – 11:45am | Chemical feed, calculating pounds and ppm of chlorine, fluoride, iron and phosphates   |
| 11:45am           | Lunch (provided)   |
| 12:30pm – 2pm     | Hydraulic calculations including flow and velocity rates<br>Horsepower calculations, including electrical cost calculations, PSI |
| 2:15pm – 3:45pm   | Backwash and filtration rates<br>Ion exchange and water softening calculations   |
| 3:45pm            | Adjourn  |

**2  
DAYS**

### Agenda Day 2: Limited Treatment

|                   |   |
|-------------------|---|
| 8:30am – 10am     | Legislation and regulations SDWA<br>Bacteriological Sampling and Analysis                 |
| 10:15am – 11:45am | Disinfection of Drinking Water<br>Pumps and Motors<br>Water Meters                        |
| 11:45am           | Lunch (provided)  |
| 12:30pm – 2pm     | Cross Connections<br>Water System Safety<br>Hardness and softening                        |
| 2:15pm – 3:45pm   | Fluoride, corrosion control, phosphates, water softening and treatment, management issues |
| 3:45m             | Adjourn   |