

# Two Day Wastewater Math



## 1.2 CECs, Wastewater Technical

*You must attend the entire class to earn the CECs*

*Class qualifies for 1.2 SHE Engineering. Must take and pass an additional written exam administered at the end of the class to earn SHE credits.*

This class will review wastewater math concepts and help prepare you for the Michigan Wastewater License Exams level “C” & “D”

### Agenda Day 1: Wastewater Math

|                  |                                                                                           |
|------------------|-------------------------------------------------------------------------------------------|
| 8:30am – 8:45am  | Introductions                                                                             |
| 8:45am – 9am     | Foundations                                                                               |
| 9am – 10am       | Basics<br>Rounding<br>Average<br>Fractions and Percents<br>Conversions<br>Percent Removal |
| 10:15am – Noon   | Areas & Volumes                                                                           |
| Noon             | Lunch (provided)                                                                          |
| 12:30pm – 1:30pm | Areas & Volumes continued                                                                 |
| 1:30pm – 2:30pm  | Pounds Formula                                                                            |
| 2:30pm – 4pm     | Flow ( $Q=VA$ ) Formula                                                                   |

### Agenda Day 2: Wastewater Math

|                 |                                                           |
|-----------------|-----------------------------------------------------------|
| 8:30am – 9:30am | Detention Time                                            |
| 9:30am – 10am   | Temperature Conversion                                    |
| 10:15am – Noon  | Laboratory<br>BOD<br>Seeded BOD<br>Fecal / Geometric Mean |
| Noon            | Lunch (provided)                                          |
| 12:30pm – 1pm   | Laboratory continued                                      |
| 1pm – 2pm       | Horsepower and Motors                                     |
| 2:15pm – 4pm    | Horsepower and Motors continued                           |

