



## WASTEWATER TREATMENT BASIC COURSE

Includes a learning style analysis, tips for better test taking, 17 modules of training related to basic wastewater treatment operations, games and activities, review sections, and unlimited use of practice exams for six weeks of study.



Train 2 Retain Resources, LLC

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**Study for your certification  
exam, or earn continuing  
education credit.**

**\$150.00  
6 Week Access  
To Training  
Material**

View  
Our  
Training  
Outline



### **Our Course Includes:**

#### **Module 1—THE TREATMENT SPECIALIST**

Understanding the Water Cycle  
Review Section and Games  
Flash Cards—Important Terminology

#### **Module 2—WHAT IS WASTEWATER?**

Pollution  
Water Contamination  
Oxygen Depletion  
Pathogenic Organisms  
Review Section and Games  
Flash Cards—Important Terminology

#### **Module 3—WASTEWATER SOURCES**

Domestic/Residential  
Commercial  
Industrial  
Stormwater  
Groundwater  
Review Section and Games  
Flash Cards—Important Terminology

#### **Module 4—WASTEWATER CHARACTERISTICS**

Solids in Wastewater  
Biological Oxygen Demand  
pH  
Nutrients  
Microconstituents  
Review Section and Games  
Flash Cards—Important Terminology

#### **Module 5— SAMPLING**

Types of Samples  
Automatic Samplers  
Sampling Locations  
Sampling Criteria  
Review Section and Games  
Flash Cards—Important Terminology

#### **Module 6— CONVENTIONAL TREATMENT**

Typical Treatments  
Review Section and Activity

#### **Module 7—PRELIMINARY TREATMENT**

Septage Receiving  
Equalization Basins  
Screens  
Grinders/Comminutors  
Grit Removal  
Flow Measurement  
Review Section and Games  
Flash Cards—Important Terminology

#### **Module 8—PRIMARY TREATMENT**

Flow Distribution

#### **Module 8 - PRIMARY TREATMENT, cont.**

Clarifier Efficiency  
Sludge/Scum Removal  
Primary Solids  
Detention Time  
Weir Overflow Rate  
Testing  
Equipment in Primary Treatment  
Review Section and Games  
Flash Cards— Important Terminology

#### **Module 9—NATURAL TREATMENT**

Stabilization Lagoons  
Wetlands  
Treatment within Wetlands  
Testing of a Lagoon  
Review Section and Games  
Flash Cards—Important Terminology

#### **Module 10—SECONDARY TREATMENT**

Activated Sludge  
Fixed Film  
Nitrification/Denitrification  
Process Control and Labwork  
Review Section and Games  
Flash Cards—Important Terminology

#### **Module 11—TERTIARY TREATMENT**

Carbon Adsorption  
Chemical Coagulation/Precipitation  
Review Section and Games  
Flash Cards—Important Terminology

### **Module 12—DISINFECTION**

Chlorination  
Dechlorination  
Ultraviolet Irradiation  
Ozonation  
Dose/Residual  
Review Section and Games  
Flash Cards—Important Terminology

### **Module 13—ADDITIONAL TREATMENT TOPICS**

Hauled Waste  
Fats, Oil, and Grease  
Odor Control  
Pumps and Maintenance  
Motors and Maintenance  
Review Section and Games  
Flash Cards—Important Terminology

### **Module 14—SOLIDS HANDLING**

Solids Digestion  
Dewatering  
Sludge Management Practices  
Review Section and Games  
Flash Cards—Important Terminology

### **Module 15—REGULATORY REPORTING**

Operator Certification  
Discharge Monitoring Reports  
Review Section and Games  
Flash Cards—Important Terminology

### **Module 16—SECURITY**

Electronic Security—Data & SCADA  
Physical Site Security  
Hazardous Chemicals Safety/Security

### **Module 16, cont.**

Emergency Response Planning  
Review Section and Games  
Flash Cards—Important Terminology

### **Module 17—FINAL MATH REVIEW**

Total Solids  
Total Suspended Solids  
Biological Oxygen Demand  
Gallons Conversions  
Pounds Calculations  
Weir Overflow Rate  
Percent Removal Efficiency  
Detention Time  
Calculation of Surface Area—Acres  
Calculation of Volume  
Population Loading  
Hydraulic Loading  
Organic Loading  
Food to Microorganism Ratio  
Sludge Age  
Chlorine—Dose, Demand, Residual  
SOUR Calculation  
Volatile Solids Loading  
Pumping Rates

### **TIPS FOR TAKING A CERTIFICATION EXAM**

### **COMPLETE GLOSSARY OF ALL COURSE TERMS**

**PRACTICE EXAMS**—Over 700 questions in question bank, so practice exams are different with every attempt. Exams are instantly scored and all incorrect answered questions identified by section for further study.

**Contact us for further information:**

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