

Course Title	Detailed Course Description	Agenda	Instructor
Wastewater Treatment - Basic Math Concepts	This course covers the various basic math concepts followed by a quiz.	Topics Include: Box Method, Dimensional Analysis, Conversions, Measurements, Significant Figures, Exponents and Square Root	Kimberly Reeder
Wastewater Treatment - General Math & Theory	This course consists of a summary of various wastewater topics followed by a quiz to assess your preparation for the Solids Process Course and the Fundamentals 1 training course.	Topics include: General Refresher, Chemistry, Biology, Hydraulics, Power, Theory and Math.	Kimberly Reeder
Wastewater Treatment - Introduction	This course covers a high level introduction to Wastewater Treatment. It is separated into five parts that summarize, at a high level, the various processes that make up a typical waste water treatment operation. The instruction is followed by a quiz.	Topics include: Introduction, Regulations, Liquid Processes, Solids Processes, Example WRRFs.	Kimberly Reeder
Wastewater Treatment - Wastewater Characteristics	This course covers Wastewater Characteristics. The learning objectives in this lesson are centered on the sources of wastewater, the collection system, per capita flow and nutrient compounds. The instruction is followed by a quiz.	Topics include: Wastewater Sources, Flow Variations, Influent Characteristics, Per Capita Generation Rates	Kimberly Reeder
Wastewater Treatment - Preliminary Treatment	This course covers Preliminary Treatment. The objectives in this lesson are based on the various equipment types, operations and maintenance utilized in Preliminary treatment. The instruction is followed by a quiz.	Topics include: Screens, Grinders, Grit Removal, Septage, Troubleshooting	Kimberly Reeder
Wastewater Treatment - Primary Treatment	This course covers Primary Treatment. The objectives in this lesson are based on the various equipment types, operations and maintenance utilized in Primary treatment. The instruction is followed by a quiz.	Topics include: Purpose, Theory, Design, Clarifiers, Valves, Process Control, Maintenance, Troubleshooting, Records and Safety	Kimberly Reeder
Wastewater Treatment - Activated Sludge Process	This course covers Activated Sludge . The objectives in this lesson are based on the various equipment types, operations and maintenance utilized in Secondary Treatment and the Activated Sludge Process. The instruction is followed by a quiz.	Topics include: Purpose, Theory, Design, Performance, Equipment, Process Control, Maintenance, Sampling, Analysis and Troubleshooting	Kimberly Reeder
Wastewater Treatment - Biological Treatment	This course covers Biological Treatment. The objectives in this lesson are based on the fundamentals of Biological treatment. The instruction is followed by a quiz.	Topics include: Microbiology, Bacteria and Microbial Growth Rates	Kimberly Reeder
Wastewater Treatment - Fixed Film Treatment	This course covers Fixed Film Treatment. The objectives in this lesson are based on the various equipment types, operations and maintenance utilized in Fixed Film Processes. The instruction is followed by a short quiz to test your comprehension of the material that was covered in the Chapter.	Topics include: Purpose, Theory, Design, Performance, Equipment, Process Control, Maintenance, Sampling, Analysis and Troubleshooting	Kimberly Reeder
Wastewater Treatment - Waste Treatment Ponds	This course covers Treatment Ponds. The objectives in this lesson are based on the various equipment types, operations and maintenance utilized in Treatment Ponds. The instruction is followed by a quiz.	Topics include: Purpose, Theory, Design, Performance, Equipment, Process Control, Maintenance, Sampling, Analysis and Troubleshooting	Kimberly Reeder
Wastewater Treatment - Nutrient Removal	This course covers Nutrient Removal. The objectives in this lesson are based on the various Methodologies, Sampling and Analysis utilized in the Nutrient Removal Process. The instruction is followed by a quiz.	Topics Include: Nitrogen, Phosphorus, Chemistry, Nitrification and Denitrification	Kimberly Reeder
Wastewater Treatment - Disinfection	This course covers Disinfection of wastewater. The objectives in this lesson are based on the various Chemicals, Equipment, Safety, operations and maintenance utilized in the Disinfection Process. The instruction is followed by a quiz.	Topics include: Purpose, Theory, Design, Chemicals, Methods, Performance, Equipment, Process Control, Maintenance, Safety, Sampling, Analysis and Troubleshooting	Kimberly Reeder

Wastewater Treatment - Solids Process Review	This course consists of a summary of the common solids processes followed by a quiz to assess your preparation for the Fundamentals 1 training course.	Topics include: Solids Overview, Sludge Thickening, Digestion, Biosolids and Math.	Kimberly Reeder
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