

Course Title	Detailed Course Description	Agenda	Instructor
Wastewater Treatment Basic Math	This course covers the various basic math concepts followed by a quiz to assess your preparation for the Fundamentals 1 training course.	Topics Include: Box Method, Dimensional Analysis, Conversions, Measurements, Exponents and Square Root	Kimberly Reeder
Wastewater Treatment Math & Theory Review	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 Fundamentals 1 Liquid Treatment - Introduction	This course covers Chapter 1 Introduction in the Fundamentals I Liquid Processes manual. It is 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 short quiz to test your	Topics include: Introduction, Regulations, Liquid Processes, Solids Processes, Example WRRFs.	Kimberly Reeder
Wastewater Treatment Fundamentals 1 Liquid Treatment - Wastewater Characteristics	This course covers Chapter 2 Wastewater Characteristics in the Fundamentals I Liquid Processes manual. 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 short quiz to test your comprehension of the material that was	Topics include: Wastewater Sources, Flow Variations, Influent Characteristics, Per Capita Generation Rates	Kimberly Reeder
Wastewater Treatment Fundamentals 1 Liquid Treatment - Preliminary Treatment	This course covers Chapter 3 Preliminary Treatment in the Fundamentals I Liquid Processes manual. 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 short quiz to test your comprehension of the material that	Topics include: Screens, Grinders, Grit Removal, Septage, Troubleshooting	Kimberly Reeder
Wastewater Treatment Fundamentals 1 Liquid Treatment - Primary Treatment	This course covers Chapter 4 Primary Treatment in the Fundamentals I Liquid Processes manual. 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 short quiz to test your comprehension of the material that was covered in the Chapter.	Topics include: Purpose, Theory, Design, Clarifiers, Valves, Process Control, Maintenance, Troubleshooting, Records and Safety	Kimberly Reeder

Wastewater Treatment Fundamentals 1 Liquid Treatment - Waste Treatment Ponds	This course covers Chapter 5 Fundamentals of Biological Treatment in the Fundamentals I Liquid Processes manual. The objectives in this lesson are based on the fundamentals of Biological treatment. The instruction is followed by a short quiz to test your comprehension of the material that was covered in the Chapter.	Topics include: Microbiology, Bacteria and Microbial Growth Rates	Kimberly Reeder
Wastewater Treatment Fundamentals 1 Liquid Treatment - Biological Treatment	This course covers Chapter 6 Wastewater Treatment Ponds in the Fundamentals I Liquid Processes manual. 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 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 Fundamentals 1 Liquid Treatment - Fixed Film Treatment	This course covers Chapter 7 Fixed Film Treatment in the Fundamentals I Liquid Processes manual. 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 Fundamentals 1 Liquid Treatment - Activated Sludge Process	This course covers Chapter 8 Activated Sludge in the Fundamentals I Liquid Processes manual. 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 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 Fundamentals 1 Liquid Treatment - Nutrient Removal	This course covers Chapter 9 Nutrient Removal in the Fundamentals I Liquid Processes manual. 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 short quiz to test your comprehension of the material that was covered in the Chapter.	Topics Include: Nitrogen, Phosphorus, Chemistry, Nitrification and Denitrification	Kimberly Reeder
Wastewater Treatment Fundamentals 1 Liquid Treatment - Disinfection	This course covers Chapter 10 Disinfection in the Fundamentals I Liquid Processes manual. 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 short quiz to test your	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