

2015 Approved Training Unit Matrix for On-Line Training Classes

11/24/2014

Math Modules	Time, min	W	WW	I	C	D
Unit Conversions	30	0.05	0.05	0.05	0.05	0.05
Geometry	30	0.05	0.05	0.05	0.05	0.05
Chemical Dosing	30	0.05	0.05	0.05	0.05	0.05
Universal Topics	Time, min	W	WW	I	C	D
Pumps	90	0.15	0.15	0.15	0.15	0.15
Hydraulics Basics	60	0.1	0.1	0.1	0.1	0.1
Hydraulics of Pumped Systems	120	0.2	0.2	0.2	0.2	0.2
Corrosion Control	120	0.2	0.2	0.2	0.2	0.2
Maintenance	90	0.15	0.15	0.15	0.15	0.15
Trenching and Shoring	120				0.2	0.2
Confined Space Entry	90	0.15	0.15	0.15	0.15	0.15
Lock-out / Tag-Out	60	0.10	0.10	0.10	0.10	0.10
Collection Systems Topics	Time, min	W	WW	I	C	D
Introduction to Collections Systems	90				0.15	
Collection System Inspection, Testing, and Cleaning - Part 1	120				0.2	
Collection System Inspection, Testing, and Cleaning - Part 2	120				0.2	
Lift Stations	60				0.1	
Pretreatment and Pollution Prevention	150		0.2	0.2	0.2	
Wastewater Treatment Topics	Time, min	W	WW	I	C	D
Introduction to Wastewater: A Plant Overview	90		0.15	0.15		
What's In My Wastewater: Definitions and Typical Ratios	90		0.15	0.15	0.15	
Fixed Film: Trickling Filters and RBCs	90		0.15	0.15		
Lagoons and Wetlands	120		0.2	0.2		
Lagoons and Fixed Film (older)	90	0.1	0.15	0.15		
Activated Sludge Basics	150		0.25	0.25		
Activated Sludge Basics: A Mechanical Approach	120		0.2	0.2		
Activated Sludge Microbiology and Microscope Techniques - Part 1	60		0.1	0.1		
Activated Sludge Microbiology and Microscope Techniques - Part 2	60		0.1	0.1		
Types of Activated Sludge Systems	90		0.15	0.15		
Nitrification and Denitrification	120	0.2	0.2	0.2		
Biological and Chemical Phosphorus Removal	90		0.15	0.15		
State Point Analysis for Secondary Clarifiers	90	0.15	0.15	0.15		
Activated Sludge Process Control Tests and Troubleshooting	120		0.2	0.2		
IFAS and Membrane Activated Sludge Systems	120		0.2	0.2		
Chlorine Disinfection	90	0.15	0.15	0.15		0.15
Introduction to Solids Handling and 503 Regulations	90	0.15	0.15	0.15	0.15	0.15
Aerobic and Anaerobic Digestion	120		0.2	0.2		
Belt Filter Presses	90	0.15	0.15	0.15		
Centrifuges	90	0.15	0.15	0.15		
Odor Control	90		0.15	0.15	0.15	
Completing the Discharge Monitoring Report	90	0.15	0.15	0.15		
Laboratory Testing - Part 1 (pH, alkalinity, BOD, and Winkler)	120	0.1	0.2	0.2		0.05
Laboratory Testing - Part 2A (Total Suspended Solids)	60	0.1	0.1	0.1		
Laboratory Testing - Part 2B (Fecal coliforms)	90	0.15	0.15	0.15		0.15
Proper Use of Spectrophotometers (QA/QC)	60	0.1	0.1	0.1		
Basic Chemistry	120	0.2	0.2	0.2		0.2
Treatment of Metal Wastestreams (Industrial)	60		0.1	0.1		

Water Treatment & Distribution Topics	Time, min	W	WW	I	C	D
Introduction to Small Water Systems	90	0.15				0.15
Water Treatment Chemistry	120	0.2	0.2	0.2		0.2
Water Microbiology	90	0.15	0.15	0.15		0.15
Electrical Fundamentals	90	0.15	0.15	0.15	0.15	0.15
Water Sources Part 1	90	0.15				0.15
Water Sources Part 2	120	0.2				0.2
Water Treatment Part 1	150	0.25				
Water Treatment Part 2	150	0.25				
Chlorine Cylinder Changeout Demonstration	30	0.05	0.05	0.05		0.05
Intro to Distribution Systems	120	0.1				0.2
Regulations Part 1	90	0.15				0.15
Regulations Part 2	90	0.15				0.15
Corrosion Control and Laboratory	120	0.2	0.2	0.2	0.2	0.2
Total Available if All Courses are Completed:	90 hours	5.2	6.6	6.6	3.05	3.85