

**Capacity Development and Operator Certification
Hondah Conference Center, 777 Hwy 260
Pinetop, Arizona 85935, January 30
Operator Track-Room A
Treatment Day 1**

7:30-8:00 am	Check In (<i>Pre-registration is required</i>)
8:00-8:50 am	Code of Ethics; Required Knowledge; Operator Certification; Professional Development Hours (PDH's); Federal and State Regulatory Overview
9:00-9:50 am	Water Sources and Treatment Options
10:00-10:50 am	Basic Microbiology and Water Chemistry; Water Sampling Procedures and Laboratory Analysis
11:00-11:50 am	Operator Math Review
12:00-12:50 pm	Lunch (<i>On your own</i>)
1:00-1:50 pm	Hydrogeology; Groundwater Basins; AZ Water Atlas; Subsidence; Over pumping of Aquifers
2:00-2:50 pm	Geochemistry
3:00-3:50 pm	Water Wells and Well Construction
4:00-4:50 pm	Groundwater and Wellhead Treatment

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If you have questions about this workshop, please contact Mel Rose, Operator Certification, at mr7@azdeq.gov or (602)771-4695.

Each Session is 50 minutes long								
Circle the number of PDHs you earned:								
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PDHs	7	6	5	4	3	2.5	2	1
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Operator Track
Rule Track-Room B

7:30-8:00 am	Check In (<i>Pre-registration is required</i>)
8:00-8:50 am	Drinking Water 101
9:00-9:50 am	AZSDWIS Demo
10:00-10:50 am	Sampling Locations/Common Reporting Mistakes/Public Notice Requirements
11:00-11:50 am	Consumer Confidence Report
12:00-12:50 pm	Lunch (<i>On your own</i>)
1:00-1:50 pm	Stage 2 Disinfection Byproducts Rule
2:00-2:50 pm	Inorganic Chemical Rule
3:00-3:50 pm	Wastewater – WWTP Inspections and APPs – NEW!
4:00-4:50 pm	Wastewater – APP Monitoring & Reporting – NEW!

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Management Track-Room C *Building A Reliable & Resilient Water System*

- 7:30-8:00 am Check In (*Pre-registration is required*)
- 8:00-8:50 am **Managing Our Water Resources** (*history of water resource management in Arizona; current water sources, usage, and management strategies*)
- 9:00-9:50 am **Water Demand Forecasting: Know Your Needs** (*reasons for forecasting water demand, steps and methods involved in demand forecasting*)
- 10:00-10:50 am **Source Water Protection** (*importance of protecting your drinking water sources; how to implement effective protection strategies*)
- 11:00-11:50 am **Emerging Treatment Technologies** (*promising treatment methods; how to select an appropriate technology for your small water system*)
- 12:00-12:50 pm Lunch (*On your own*)
- 1:00-1:50 pm **Water Quality Considerations in Potable Water Supply** (*types of contaminants; monitoring and analytical methods; consumer confidence report (CCR); responding to a contamination threat*)
- 2:00-2:50 pm **Distribution System Integrity** (*building a robust distribution system with physical, hydraulic and water quality integrity*)
- 3:00-3:50 pm **Infrastructure Improvement: Asset Management** (*what is asset management, using AM to develop an effective infrastructure repair-replacement strategy for small water systems*)
- 4:00-4:50 pm **Infrastructure Improvement: Funding Sources** (*emergency and non-emergency funding sources that are available to small and medium water systems*)

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**Operator Track-Room A
Treatment Day 2**

7:30-8:00 am	Check In (<i>Pre-registration is required</i>)
8:00-8:50 am	Pumps and Motors
9:00-9:50 am	Electricity; Instrumentation; SCADA; Energy Management Programs
10:00-10:50 am	Surface Water and Surface Water Impoundments
11:00-11:50 am	Surface Water Treatment
12:00-12:50 pm	Lunch (<i>On your own</i>)
1:00-1:50 pm	Water Storage Tanks and Reservoirs
2:00-2:50 pm	Chemical Handling Systems
3:00-3:50 pm	Plant and Lab Safety
4:00-4:50 pm	Plant Administration

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**Operator Track-Room B
OPERATOR MATH
(Basic and Intermediate Levels)**

7:30-8:00 am	Check In (<i>Pre-registration is required</i>)
8:00-8:50 am	Units of Measurement
9:00-9:50 am	Conversion of Measurement Units
10:00-10:50 am	Averages; Ratio and Proportion
11:00-11:50 am	Area and Volume
12:00-12:50 pm	Lunch (<i>On your own</i>)
1:00-1:50 pm	Chemical Dosing
2:00-2:50 pm	Velocity, Flow Rates and Detention Time
3:00-3:50 pm	Pressure and Force
4:00-4:50 pm	Pump and Motor

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MANAGEMENT TRACK-Room C

PWS Basics: Financial Management, Fundamentals of Rates, & Asset Management

8:00-8:30 am	Check In.....Pre-registration is required
8:30-9:00 am	What is Capacity Development?
9:10-10:00 am	Financial Management for Small Water Systems
10:10-11:00 am	Financial Management (continued)
11:10-12:00 am	Budgets/Finance Case study
12:00-12:50 pm	Lunch; On your own
1:00-1:45 pm	Fundamentals of Water Rates
1:55-2:40 pm	Water Rates (continued)
2:50-3:35 pm	Asset Management
3:45-4:30 pm	Asset Management Case Study

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PRACTICE EXAMS

8:00 am – 4:50 pm Practice Exams Offered All Day. All Classifications and All Grades

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