

Capacity Development and Operator Certification

**London Bridge
1477 Queens Bay
Lake Havasu City, AZ 86403
April 11, 2017**

Operator Track-Room A Distribution Day 1

7:30-8:00 am	Check In (<i>Pre-registration is required</i>)
8:00-8:50 am	Parameters and Sampling
9:00-9:50 am	Parameters and Sampling (continued)
10:00-10:50 am	System Design
11:00-11:50 am	Hydrants, meters, piping and service connections
12:00-12:50 pm	Lunch (<i>On your own</i>)
1:00-1:50 pm	Water math
2:00-2:50 pm	Cross connections
3:00-3:50 pm	Blowers, compressors, pumps and motors
4:00-4:50 pm	Blowers, compressors, pumps and motors (continued)

Registration required. Visit <http://www.register6.net/ADEQ/> for registration.

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If you have questions about this workshop, please contact Noah Adams, Operator Certification, at nra@azdeq.gov or (602)771-4511.

Each Session is 50 minutes long								
Circle the number of PDHs you earned:								
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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
(Basics Tools for Small Water Systems)**

7:30-8:00 am	Check In (<i>Pre-registration is required</i>)
8:00-8:50 am	What is Capacity Development?
9:00-9:50 am	Financial Management for Small Water Systems
10:00-10:50 am	Financial Management (continued)
11:00-11:50 am	Budgets/Finance Case study
12:00-12:50 pm	Lunch (<i>On your own</i>)
1:00-1:50 pm	Fundamentals of Water Rates
2:00-2:50 pm	Water Rates (continued)
3:00-3:50 pm	Asset Management
4:00-4:50 pm	Asset Management Case Study

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Rule Track-Room D

7:30-8:00 am	Check In (<i>Pre-registration is required</i>)
8:00-8:50 am	Consumer Confidence Reports
9:00-9:50 am	Consumer Confidence Reports (Continued)
10:00-10:50 am	Working with the Monitoring Assistance Program (MAP)
11:00-11:50 am	Drinking Water 101
12:00-12:50 pm	Lunch (<i>On your own</i>); Bring your Lunch for Q & A session with Your County Assistance Coordinator
1:00-1:50 pm	Common Drinking Water Reporting Mistakes
2:00-2:50 pm	Laboratory Methods
3:00-3:50 pm	Lead and Copper Rule
4:00-4:50 pm	Lead and Copper Rule (Continued)

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Operator Track-Room A Distribution Day 2

7:30-8:00 am	Check In (<i>Pre-registration is required</i>)
8:00-8:50 am	Equipment Maintenance
9:00-9:50 am	Lock-out/tag-out, PPE, and chemical handling
10:00-10:50 am	Traffic and work zone safety, natural disasters
11:00-11:50 am	Administrative duties, report writing, O&M plans
12:00-12:50 pm	Lunch (<i>On your own</i>)
1:00-1:50 pm	Customer service
2:00-2:50 pm	Water math
3:00-3:50 pm	Water math (continued)
4:00-4:50 pm	Review

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OPERATOR TRACK-Room B

(How to Make Your Water System Efficient, Safe and Reliable)

- 7:30-8:00 am **Check In** (*Pre-registration is required*)
- 8:00-8:50 am **Protect Your Water Source** (*Importance of protecting your drinking water sources and how to implement effective protection strategies*)
- 9:00-9:50 am **Choose the Correct Treatment Technology** (*Upcoming treatment methods and how to select an appropriate technology for your small water system*)
- 10:00-10:50 am **Protect your Distribution System** (*How to build a robust distribution system with physical, hydraulic and water quality integrity*)
- 11:00-11:50 am **Adopt Sustainable Practices** (*Benefits of adopting energy management and other sustainable practices; how to choose measures that can be effective for small water systems*)
- 12:00-12:50 pm **Lunch** (*On your own*)
- 1:00-1:50 pm **Ensure Security and Emergency Preparedness** (*Regulatory requirements and industry best practice methods for insuring the security readiness and emergency preparedness of water systems; review case-studies*)
- 2:00-2:50 pm **Train Employees** (*Review of training tools/methods available and how to develop an effective multi-year training program for a small organization*)
- 3:00-3:50 pm **Know Your Regulatory Agencies** (*Key interactions between water utility and ADEQ, County, ACC and WIFA and how to benefit from these relationships*)
- 4:00-4:50 pm **Ensure Adequate Funding** (*Review of emergency and non-emergency funding sources that are available to small and medium water systems*)

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Management Track-Room C

Tools to Improve Water System Operations

7:30-8:00 am	Check In.....Pre-registration is required
8:00-8:50 am	Water Audit/Water Loss/Leak Detection
9:00-9:50 am	Water Audit/Loss/Leak Detection con't
10:00-10:50 am	Energy Management & Power Optimization
11:00-11:50 am	Energy Management Case Study
12:00-12:50 pm	Lunch (<i>On your own</i>)
Afternoon sessions	Emerging Technologies for Small Water Systems
1:00-1:50 pm	Software
2:00-2:50 pm	Metering and Remote Sensing
3:00-3:50 pm	SCADA Technologies
4:00-4:50 pm	GIS mapping

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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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