

**Capacity Development and Operator Certification
London Bridge Resort, 1477 Queens Bay, Lake Havasu City, AZ 86403
Dec. 5, 2017**

**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

Professional Development Hours (PDHs) are available for this workshop. You are not required to attend all sessions to receive PDHs. Retain this agenda as your documentation for attending the sessions; ADEQ will not keep any copies.

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:								
Sessions	8	7	6	5	4	3	2	1
PDHs	7	6	5	4	3	2.5	2	1
Name:					Address:			
Operator Certification #					System:			

This training is Pre-Paid for You!

ADEQ will take reasonable measures to provide access to department services to individuals with limited ability to speak, write, or understand English and/or to those with disabilities. Requests for language interpretation services or for disability accommodations must be made at least 48 hours in advance by contacting: 7-1-1 for TDD; (602) 771-2215 for Disability Accessibility; or Ian Bingham, Title VI Nondiscrimination Coordinator at (602) 771-4322 or idb@azdeq.gov. ADEQ tomará medidas razonables para proveer acceso a los servicios del departamento para personas con capacidad limitada para hablar, escribir o entender Inglés y / o para las personas con discapacidad. Las solicitudes de servicios de interpretación del lenguaje o de alojamiento de discapacidad deben hacerse por lo menos 48 horas de antelación poniéndose en contacto con Ian Bingham, Title VI Nondiscrimination Coordinator al (602) 771-4322 o idb@azdeq.gov.

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**Operator Track-Room C
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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ROOM B

PRACTICE EXAMS

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

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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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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 & AZSDWIS Demo
9:00-9:50 am	Stage 2 Disinfection By-products
10:00-10:50 am	Inorganic Chemicals – including Nitrates & Arsenic
11:00-11:50 am	Wastewater – APP Monitoring & Reporting – NEW!
12:00-12:50 pm	Lunch (<i>On your own</i>)
1:00-1:50 pm	Wastewater – WWTP Inspections and APPs – NEW!
2:00-2:50 pm	RADs/ Common Reporting Mistakes and Public Notices
3:00-3:50 pm	What to Expect When Being Inspected – Public Water Systems
4:00-4:50 pm	Surface Water Treatment Rule/ 10 Things You Need to Know

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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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