



ARKANSAS DRINKING WATER UPDATE

Volume 31, No. 1

ENGINEERING SECTION – DEPARTMENT OF HEALTH

Spring 2018

January 1, 2019 Start Date New ABC Exams

Martin Nutt, Training and Certification Officer

At its February 15, 2018 meeting, the Arkansas Drinking Water Advisory and Operator Licensing Committee voted to approve the use of new Association of Boards of Certification (ABC) exam versions starting January 1, 2019. ABC is the provider of water license exams used by the Arkansas Water License Program

The new exam versions became available in mid-2017 and are referred to here as the 2017 exams. The Committee chose to take a slow methodical implementation process. The January 1, 2019 start date provides adequate time to adjust the mandatory training courses. It provides adequate time for license candidates who are preparing for a license exam to complete their training and take the current license exam before the end of the calendar year. One issue to be aware of is that during 2018, the training rooms will have candidates preparing for the present exam version and others preparing for the new 2017 exam versions. Luckily, the new exam versions will not require significant revisions to the training. Training courses already attended will also adequately serve a student preparing for the new exam version.

Exam preparation documents, primarily the ABC “Needs-To-Know” (NTK) documents, have received significant revisions with the goal being to make them easier to understand and use. Please visit ABC’s webpage: http://www.abccert.org/testing_services/certification_study_resources.asp to review the new exams’ 2017 NTK or the present exams 2012 NTK documents.

The most significant change of the new exams is that they contain new test questions. The new questions will be very similar in design, and for the most part will cover the same topics. There is no effort to change the basic content knowledge of the exams or change their difficulty levels. There is a significant change in the items format. Weights and measures are provided in both US Customary

and metric units. The metric units will follow the US Customary and enclosed in parenthesis. Math items will have the ability for both US Customary and metric unit solutions.

The new exams have had specific federal, state or provincial compliance items, such as SDWA, eliminated. However, knowledge of federal or state compliance is needed for items on how to comply with the requirements, such as, the control methods to reduce lead levels.

Each new exam will also have 10 extra un-scored items that have not been used on previous exam. These are “pre-test” items allowing ABC to gather valuable data about the new items’ performance. Pre-test items are not identified and are scattered throughout the exam to ensure candidates answer them with the same care in which they address scored items. Most importantly, the pre-test items are not included in the candidate’s final score determination.

The last change the new exams are creating is a need to revise the recommended list of reference manuals. This revision also addresses a significant revision in the “Water Supply Operations” (WSO) series of manuals from the American Water Works Association. The WSO series is now aligned more directly with ABC’s 2017 exam NTK. The revised reference manual list is at this

webpage: <http://www.healthy.arkansas.gov/images/uploads/pdf/drinking-water-operref.pdf>

and lists both the WSO series and Office of Water Programs, Sacramento State manuals as primary resource manuals. Both sets of the manuals were utilized in the development of the ABC 2017 exams.

The new exam versions are not a major change in the license exams, in the sense of a whole new exam structure. Please see past editions of this newsletter, and this edition, for additional articles addressing the above changes. A “cut score” or passing score of 70% will be used with these new exams.

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ASDWA Recommends New Approach For Lead and Copper Rule Revisions

Jeff Stone, P.E., Director

During the first few months of 2018, the Environmental Protection Agency (EPA) sought input from various stakeholders concerning the development of a revised Lead and Copper Rule. This opportunity to provide input to EPA was reported in the previous edition of this newsletter (see Winter 2017 page 2). The process to revise the current Lead and Copper Rule has been underway for a long time and has taken on increased importance following the tragedy in Flint, Michigan, where some consumers were exposed to high lead concentrations. The Association of State Drinking Water Administrators (ASDWA) provided input during this recent comment period and suggested that a new approach be taken that utilizes a “bins” system to target additional requirements when needed based upon the 90th percentile results for that system.

The Association of State Drinking Water Administrators is an association comprised of state and territory personnel directly involved in safe drinking water act implementation. ASDWA was formed in 1984 and Arkansas was a founding member. As a practical matter, ASDWA is the only effective channel by which state drinking water programs can provide meaningful input into the development of new federal regulations.

In a letter dated March 8, 2018, Lisa Daniels from Pennsylvania drinking water program and the current ASDWA president, offered seven recommendations.

First, keep as many components as possible from the current rule regarding sample site selection and monitoring.

Second, consider using a “bins” regulatory framework that increases requirements based upon increasing levels of the 90th percentile measure. This would result in additional requirements being targeted to systems that need to take additional actions to address higher levels of lead.

Third, take into consideration the need for simultaneous compliance with other drinking water regulations and wastewater discharge regulations.

Fourth, look beyond drinking water regulations and take a lead role with reducing total lead exposure. Drinking water is only one of many routes of lead exposure.

Fifth, support Americans with lead service lines so that all homeowners, no matter their income or location, can replace them.

Sixth, assure that all educational materials about reducing exposure to lead are consistent.

Seventh, take a careful approach to state flexibility so unintended loopholes are not created.

ASDWA has provided an internet link to this document. The document can be found here:

https://asdwa.files.wordpress.com/2018/03/final-lt_lcr-federal-consultation-asdwa-comments_appendices.pdf

ASDWA’s recommendation for use of a “bins” system is a new idea in the context of the effort to revise the lead and copper rule. Use of a “bins” system has been used before in the Safe Drinking Water Act. One example is for setting increased treatment requirements corresponding to increased concentrations of cryptosporidium in source water.

The ASDWA recommendation suggests that if a water system is demonstrating a very low 90th percentile lead measurement then that water system is largely allowed to proceed without additional requirements. However, with increasing levels of the 90th percentile measurement, water systems would be subject to increasing additional requirements that include corrosion control treatment, lead service line replacements, increased monitoring, and more extensive public education and outreach. This recommended “bins” system would focus new requirements where they are needed versus a blanket approach.

The recommendations provided by ASDWA are lengthy and also cover other topics including cost of implementation. At this early stage, ASDWA is estimating a state drinking water program implementation cost of approximately \$73 million to \$97 million over the first 5 years. It will only be after a proposed rule is released that more accurate cost estimates can be prepared. A proposed revised Lead and Copper Rule is expected to be released by EPA during late 2018.

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Overview of the ABC Standardized Exam Development Process

(This article adapted from multiple ABC and PSI documents.)
Martin Nutt, Training and Certification Officer

The information below was provided primarily by the Association of Boards of Certification (ABC) and PSI Services LLC (PSI), formerly known as Applied Measurement Professions (AMP). The ABC 2017 Standardized Exams developed through a rigorous psychometric process that began with new job analyses conducted in 2014-2015. Through this process, several thousand industry stakeholders, including many Arkansas operators, provided input on the significance of approximately 730 job tasks. This data was analyzed to prepare new exam content outlines (*Need-to-Know Criteria*) reflecting the most widely performed and significant job tasks.

Compared to prior editions of the *Need-to-Know Criteria*, the new outlines have:

- More clearly stated and streamlined job task statements;
- Fixed and clearly communicated number of calculation items per exam form;
- New information detailing the number of recall, application, and analysis level items included in each content area; and
- New information provided indicating the basic, intermediate, or advanced level for each statement of supporting knowledge.

In 2016, more than 1,000 new items (“test questions”) were written and closely scrutinized against the new *Need-to-Know Criteria*, additionally, best item writing practices were followed to avoid common item flaws or bias. Much of this new content was integrated into the 2017 Standardized Exams, which, after extensive review and refinement, were pilot tested during the spring and summer of 2017.

Each phase of exam development was carried out by diverse committees of highly qualified subject matter experts (SME) – volunteers from across the United States and Canada – under the guidance of ABC’s psychometric partner, PSI. Stacy Cheevers, Beaver Water District, served on the Water Treatment SME Committee and Martin Nutt, Arkansas Department of Health, served on the Water Distribution SME Committee.

An Exam for All Jurisdictions

In order to provide a standardized resource to all ABC members; address broad concerns on diverging local, state/provincial, and federal regulations; and best invest volunteer time and Association funds; the 2017 Standardized exams have been developed to serve both United States and Canadian certification programs. To accommodate this shift, weights and measures are provided in both US Customary and metric units – see example at right. In addition, specific federal, state or provincial compliance items, such as, “What is the maximum allowed total trihalomethane level?” are not included on the new exams. However, an item in reference to control methods for trihalomethanes would be acceptable.

Example Calculation Item

If a water reservoir 12 ft (4m) in diameter has a static water level of 21 ft (7m) what is the pressure on the bottom of the tank?

- A. 6 psi (46 kPa)
- B. 9 psi (69 kPa)
- C. 12 psi (92 kPa)
- D. 21 psi (161 kPa)

Pre-test Items and Time Limits

Each 2017 standardized exam form includes 10 extra unscored items that have not been used on previous versions of the exam. These are known as “pre-test” items and allow ABC to gather valuable data about the new items performance before they are included as scored items on future exams. Pre-test items are not identified and are scattered throughout the exam to ensure candidates answer them with the same care in which they address scored items. The pre-test items are not included in the candidate’s final score determination.

ABC continues to recommend a 3-hour time allotment for the 110 item exam. The 3-hour allotment is well above the testing industry's standard 2 hours for a 100-110 item exam and should allow each candidate sufficient time to complete the examination.

Setting the Examination Standard

ABC established a passing standard, or "cut score" for each certification examination. The fundamental idea is to compare an individual's performance (test score) to a performance standard. ABC utilized the Modified-Angoff methodology when setting the passing standard for the new examinations which is one of the most commonly used approaches to determine the cut score for a certification or licensure examination. An examinee's pass/fail status is determined by comparing their performance to an absolute standard of performance and not by the performance of other examinees taking the examination or by setting an arbitrary standard such as 70%. This method typically begins with a discussion of the "minimally competent practitioner" (MCP). The MCP is an examinee who has acquired a mastery of the content of their profession at a minimum level. This minimum level is typically sufficient for the successful execution of their job duties, and provides adequate assurance that they can carry out their tasks in a safe and effective manner. The MCP must also meet, at a minimum, the eligibility requirements for the examination.

ABC utilized the above SME Committees in establishing the minimum level or standard of knowledge, for the safe, effective, and competent performance of the water distribution or treatment operator. The SME Committee's goal was to ensure that examinees that pass the examination are qualified to perform the work, and should be certified to do so. The foundation of this process was the evaluation of the difficulty level of each item followed by estimation of the probability that the MCP would answer that item correctly. A relationship was established between the number of items an examinee must answer correctly to pass the examination and their level of competence. The examinee is not expected to get all of the items on the examination correct to be declared minimally competent, nor does a person have to be performing their job at a superior level to be considered minimally competent. When this process was completed, ABC determined the passing score for all the examinations would be set at 70%. While 70% corresponds to a customary pass/fail threshold, it is important to note that the new exams' passing scores of 70% were established through a rigorous and defensible process and not arbitrarily set.

Supporting Materials

Supporting materials have been posted to ABC's 2017 Standardized Exam Resources webpage www.abccert.org/testing_services/2017StandardizedExams.asp and include:

- **Need-to-Know Criteria**

With the 2017 editions of the *Need-to-Know Criteria*, each exam now has its own document (rather than aggregating Class I-IV information in a single document). When viewing these documents, keep in mind that for ABC's standardized exams, Class I is the lowest and Class IV is the highest.

- **Formula/Conversion Tables**

Updated formula/conversion tables (FCTs) are implemented with the new exams. Subject matter expert committees carefully reviewed specific and credible feedback received from programs and examinees using the prior tables. The committees merged US and Canadian content, cross-referenced all tables for gaps and inconsistencies, and evaluated the content against the newest *Need-to-Know Criteria* to develop the new FCTs. Arkansas will utilize this FCT, very similar to the present FCT, when we move to the new exams.

- **Exam Reference Lists**

The approved references for the 2017 standardized exams are similar to those utilized for past ABC standardized exams – updates are primarily in recognition of recently published editions or series of materials available from AWWA, WEF, and CSUS Office of Water Programs.

Scoring and Reporting

While the processes for scoring and reporting will remain largely the same, the new standardized exams will benefit from updated score and mastery reports. These reports are mapped to the new *Need-to-Know Criteria* and offer diagnostic information about candidate performance on specific examination content areas. Candidates can utilize their score reports to determine in which exam content areas they should focus their

future preparation efforts, and then consult the *Need-to-Know Criteria* for a complete list of testable operator job tasks included in that content area.

Objective	Score	%	0.....100
Area 1 - Treatment <i>Treatment Process</i>	23 of 31	74.19	
Area 2 - Lab <i>Laboratory Analysis</i>	9 of 14	64.29	
Area 3 - Equipment O&M <i>Equipment Operation and Maintenance</i>	19 of 24	79.17	
Area 4 - Source Water <i>Source Water Characteristics</i>	8 of 11	72.73	
Area 5 - Safety, Admin, Etc. <i>Security, Safety, Compliance, and Administrative Procedures</i>	15 of 20	75.00	

The updated mastery report offers a description of each objective area on the exam and allows candidates to analyze their performance in each area.



Toby Dyer joined the Engineering Section as an Engineer Technician. Toby will be working in the sample collection program and will primarily work in south Arkansas. His duties consist of collection of SDWA compliance samples for community, non-community, and transient public water systems. Toby previously worked for the City of Bryant.



Andrew Gibbons is the new transient, non-community Environmental Health Specialist. Andrew received a B.S. in Biology from Hendrix College and a M.S. in Environmental Science with a specialty in onsite wastewater systems from the University of Arkansas. Before completing his master's degree, Andrew worked for the Peace Corp and was the Capacity Development program manager for the Engineering Section.

NOTICE OF GRANT AVAILABILITY

The Arkansas Department of Health/Office of Oral Health has grant money available to upgrade old and outdated water fluoridation equipment. If you are interested, please send the following documents: engineering plans/schematic for engineering approval, a list of materials to be purchased for the project, and a letter of interest printed on municipal stationery. For more information, contact the director of the Office of Oral Health: Lindy Bollen, Jr., DDS.
Lindy.Bollen@arkansas.gov 501-280-4111

REPORT OF THE Arkansas Drinking Water Advisory and Operator Licensing Committee

Martin Nutt, Training and Certification Officer

A quarterly meeting of the Arkansas Drinking Water Advisory and Operator Licensing Committee (Committee) was held on February 8, 2018. The quarterly meeting was held at 10:00 a.m., at the Arkansas Rural Water Association, Lonoke, Arkansas.

Members present:

Stacy Cheevers, Chair, Beaver Water District (2018)	Roger Moren, Chair-Elect, Sardis Water Assn (2019)
Brad Scheffler, Piggott Water/Wastewater (2020)	Aaron Benzing, P.E., Hawkins Weir Engineers (2021)
Scott Boggs, Searcy Water Utilities (2023)	Jeff Stone, P.E., Executive Secretary; ADH

Member Absent:

Lashun Thomas, Ph.D., P.E., UA Little Rock (2022)

Department of Health (ADH) Staff & Guests present:

Reginald Rogers, ADH Legal	Martin Nutt, Training and Cert Officer, ADH
Ida L Hampton, Administrative Specialist, ADH	Jeff Ford, Arkansas Rural Water Assn (ARWA)
Randy Harper, Arkansas Environmental Training Academy (AETA)	Jeremy Rowe, AETA
Lance McAvoy, Fort Smith Utility	Bill Russell, Mayor, City of Bauxite
Matthew Ghere, City of Bauxite	

Cheevers called the meeting to order, and all present were introduced. The Committee approved the October 12, 2017 meeting minutes and the July 13, 2017 meeting minutes, which were not approved during the very abbreviated Committee meeting held post the October 12, 2017 Committee license revocation hearing.

STANDING BUSINESS

The Committee approved a High School Diploma Waiver for Matthew Ghere, City of Bauxite after reviewing the waiver application and obtaining additional information from Nutt, Ghere, and Russell. The approved waiver was for a Grade I Distribution License with a recommendation the applicant obtain either a High School Diploma or GED if he desired to obtain a higher grade Distribution License or Treatment License.

OLD BUSINESS

Rogers updated the Committee on actions taken post the Committee's license revocation hearing October 12, 2017 which resulted in a recommendation to the Board of Health to revoke Matthew Mosley's water licenses. He stated the full Board of Health reviewed the matter at its January 25, 2018 meeting and upheld the recommendation and revoked the licenses for 3 years, with the requirements to meet all new license applicant requirements should he wish to relicense. Rogers stated Mosley was notified of the Board's findings, in a letter dated, on or about, February 12, 2018. He concluded his update with a review of Mosley's right to appeal to Circuit Court.

Nutt provided a 2017 Water License Renewal report noting renewal had mostly concluded, that several small one operator systems were issued SDWA violations because the licensed operator had not renewed their license(s) by the end of the active license grace period of September 30, 2017. He concluded the report noting the renewal cycle was on course to have its normal 10 to 15 percent not renewing and that occasional renewals are still being received as the end of the licenses reinstatement period of June 30, 2018 approaches.

Nutt and Cheevers then recapped their involvement in the development of ABC 2017 Exam Versions. Nutt reported that Cheevers', his, and lots of other volunteers' efforts had come to fruition with the 2017 ABC standardized exam. Nutt stated that the 2017 exams were the most extensive psychometrically sound exams ABC has ever developed. It started with developing the base document, the job description, to the very large response of operators, over 5,000, who participated in the job performance survey, to the significant time and effort the exam development groups spent matching and writing exam questions to fit the final needs to know developed from the survey responses. This effort resulted in the validated 2017 exams. Cheevers added he

had learned a lot about what it takes to develop exams and that the new exams were very thorough exams with all parts of the exam well documented as to its need.

NEW BUSINESS – CHEEVERS

Nutt referenced an information sheet on the use of the 2017 ABC exams and requested the Committee's input on the program's next steps as to their use. He asked, "Do we want to use them, and, if we do, when do we start using them?" He reviewed the key points, the exams are available, the present, 2012 exams will be supported by ABC as valid until December 31, 2018, with ABC support of an exam challenge after that date significantly diminished. Stone noted he did not like being an early adopter and that this implementation date would mean the exams will have had time to rule out any use hiccups and that the "cut score" has not become an issue in that ABC determined the exams "cut scores" would remain at 70%. He expressed support for the January 1, 2019 date. Scheffler followed Stone's comments with a motion to adopt the use of the 2017 ABC Standardized Exams and start using them January 1, 2019. Moren provided the Second and the motion passed. Rowe sought input as to when the trainers should begin using the new NTK, formula sheet, etc. Nutt suggested the trainers probably needed to start using them soon knowing that there will be a transition period where some are preparing for present exams and others for the new exam. Discussion then followed about how far out operators start preparing for exams with Jeremy thanking the Committee for its input.

Nutt stated with the use of the new exams, the Study Reference Manual List needed to be revised. He referenced the provided proposed revised list. He stated the revised list listed the California State Manuals and the AWWA Water Supply Operation series of manuals as recommended manuals. The WSO manuals had previously been listed as suggested additional references. He stated the new ABC Exams' Needs-To-Know listed both sets of manuals. In addition he observed that during the exam development workshop that both were heavily used, in both the treatment and distribution workgroups when writing new questions or researching existing questions. He stated he was not comfortable using the new exams without the reference list suggesting access to both sets of manuals. Plus, the heavily revised WSO series had been aligned to the new ABC NTK. After discussion surrounding the need for all manuals, cost, etc., Nutt concluded that unless the Committee objected he was going to begin using the proposed Study Reference Manual List. The Committee agreed with the use of the list.

Boggs, in his ABC Annual Conference attendance report, stated he could validate the usefulness of sending a Committee member, noted he now better understood why reciprocity was such a difficult issue as he became aware of the differences in each state's program and the diversity of doing the same thing. Another big issue he felt came out of the conference was the necessity of requiring a high level of competency from operators while at the same time receiving presentations on recruiting adequate operating staff. He concluded by expressing his appreciation for the opportunity to attend, that he learned a lot, and had a new appreciation for the managing of a licensing program. Nutt reviewed presentations from the Trainers Workshop mentioning a concerning presentation from IACET on its continuing education standards and how those standards would nullify all our present continuing education including the mandatory courses. Another informative presentation was on adapting to the digital age from changing training delivered through use of the internet to how we do our jobs with AMR, SCADA, etc. A legal presentation on the ADA provided troubling thoughts as to what accommodations should be allowed for exam administration. A presentation from PSI provided insights on the use of new technologies to administer exams like remote proctored exam kiosks. Nutt concluded by noting he always gained new insights into licensure program administration from the presentations and networking opportunities.

Stone informed the Committee that the Drinking Water Program had recently had a data audit from EPA. The audit is not a financial audit, it is several EPA staff members reviewing the program's various data records and PWS compliance documentations. It is EPA's due diligence to make sure the program is doing our job as the SDWA Primacy Agency. He stated the primary concern from the audit was in our method of data reporting not utilizing a specific EPA preferred reporting software. Stone stated that the overall summary was the program is doing well with no significant issue contained in the final report.

Nutt provided the 2018 Mandatory Training Schedule to document that training was geographically available throughout the State and the Committee had no need to utilize the clause in the regulations that allowed them to waive the training requirements when it is not available in a geographical area of the State. He further noted that the schedule had no appreciable decrease or increase in training availability.

Nutt presented the 2018 License Exam schedule, noting it was almost identical to last year's, except Mountain Home exam sessions had been moved to Thursday due the facility was closed Fridays. He noted the

computer-based exams were still available to fill any need gaps, and their use was steadily increasing mainly from a convenience standpoint.

COMMITTEE REPORTS

Stone indicated the Section's budget was stable. The Section recently reduced the staff by not refilling a couple of vacant positions and had implemented the new state pay plan.

Stone provided a Program update stating the program has challenges to be faced in the future. One is the issue mentioned earlier in reference to the EPA audit noting data submittal concerns. The program's computer software may need potentially expensive upgrades due to the program using Microsoft SQL database system and EPA and many other states are using Oracle based data systems. To convert to Oracle will be an expensive conversion and staff familiar with Oracle difficult to find. This issue needs to be worked out to maintain primacy and Stone went into depth on possible ways to address this concern. He then noted he recently attended an EPA Region VI meeting and was provided latest estimates, never accurate, for the issuance of various new rules. EPA estimates the Revised L&C Rule would be proposed by August 2018, final rule February 2020 with effective date 2023, he noted the rule will have a comment period which all concerned should take advantage. The perchlorate rule may be proposed by October 2018, final rule by December 2019, and be effective end 2022. He concluded by noting UCMR 4 sampling began January 2018 with UCMR 5 sampling to begin January 2023 which may coincide with start of the Perchlorate Rule monitoring and Revised L&C Rule modified sampling requirements which could make 2023 a very expensive sampling year with a significant question on how it will be funded.

Nutt started his license update report by referencing the provided handout detailing Arkansas passing rate information, noting no magical improvement in passing rates had occurred, that we continue to see the higher license grades performing lower than preferred. He reviewed the computer-based exams growing numbers in follow-up to an earlier discussion on their use.

Nutt, in his enforcement plan update, provided a handout to the Committee detailing enforcement actions. He noted that the list was growing with the earlier mention renewal created violations being part of the growth. However, much of the growth is a result of the Section's starting to take enforcement action against system without a fully licensed operator. A system's only operator holds an OIT instead of a full license would be an example. In those cases, the enforcement is listed as a State Regulation violation rather than a SDWA violation lessening the severity of the violation.

Nutt in his General Program Update informed the Committee that the program was not processing applications, exam results, and licenses, as quickly as he preferred. Some of the lag in the program is processing a larger volume of applications and exams. The exam passing rates are creating operator turnover resulting in new applicants or the existing operators were repeating their exams frequently creating a much larger number of exams to process. He noted he had mitigated the large number of phones calls for exam results by emailing exam results the day results are received.

Harper started the Arkansas Environmental Training Academy report by passing out the AETA 2018 training schedule and noted his duties had been increased with the addition of SAU Tech's Workforce Training. The upside to the workforce addition is its training is incorporated into the overall AETA training efforts and is listed in the schedule. Also, the Academy has added several renewal focused courses and encouraged everyone to look into their use for some fresh renewal training for them and their staff. Rowe then presented the Academy's training report reporting the Academy offered in 2017, 1,216 direct training instruction hours in 71 different water courses, which were offered at 22 locations across the state. If you include indirect training there were an additional 195 different indirect water courses.

Ford provided Arkansas Rural Water Association's written training report detailing their training classes and attendance data for the last calendar year. He reported a total of 544 training hours with a total attendance of 2642.

OTHER BUSINESS – CHEEVERS

The Committee confirmed the next meeting date for April 5, 2018 and adjourned.

Water Operator Licenses Issued

December 1, 2017 through February 28, 2018

LICENSEE NAME	GRADE/TYPE	SYSTEM NAME
AARON JEREMY	D - III	HOPE WATER LIGHT COMM
BECK STEVEN	D - III	HOPE WATER LIGHT COMM
BIRCH ROBERT	D - IV	CONWAY CO REGIONAL WATER DIST
BREWER RANDY	D - II	VAN BUREN COUNTY W U A
BURKE WALTER	T - II	THORNTON WATERWORKS
BYERLEY JEFFREY	D - IV	JACKSONVILLE WATERWORKS
CASTLEBERRY TREVOR	D - II	BEARDEN WATERWORKS
CHERRY CHRISTOPHER	D - IV & T - IV	POCAHONTAS WATERWORKS
COOK JASON	D - IV & T - IV	JONESBORO WATER SYSTEM
COWELL DWIGHT	D - II	LAMAR WATERWORKS
CRAIG DENNIS	D - II	NAT CTR FOR TOXOLOGICAL RES
DAVIS JAMES	D - I	HOT SPRINGS VILLAGE WATER
DONABY OSCAR	D - I	HELENA WATER SEWER
EDMONDS CHARLES	D - I	HOT SPRINGS VILLAGE WATER
FORST STEPHEN	D - II	CHARLESTON WATERWORKS
GAIRICH MICHAEL	D - II	HARMONY GROVE WATER ASSOC
HACKWORTH MICHAEL	T - II	PECO FOODS
HARTSFIELD THOMAS	D - IV	SEARCY WATERWORKS
HARVEY CHRISTOPHER	D - IV	SHUMAKER PUBLIC SERVICE CO
HOLT TIMOTHY	D - II	HARRISON WATERWORKS
HOWELL CODY	T - IV	HOT SPRINGS UTILITIES
JOHNSON KEITH	D - IV	MOUNTAIN VIEW WATERWORKS
KEATHLEY BRENDON	D - III & T - II	JACKSONVILLE WATERWORKS
LONG CHRISTOPHER	D - IV	JACKSONVILLE WATERWORKS
MARR CHRISTOPHER	T - IV	CENTRAL ARKANSAS WATER
MATTINGLY JAMES	D - IV	HOT SPRINGS VILLAGE WATER
MCCARTY JAMES	D - IV & T - IV	BEAVER WATER DISTRICT
MCCOY JOHN	D - I	HOT SPRINGS VILLAGE WATER
MCKINZIE GUY	D - II	CENTERTON WATERWORKS
MILLS ALBERT	T - IV	CROSSETT WATER COMMISSION & WEST ASHLEY COUNTY WATER ASSN
MORRIS FRANK	T - IV	CENTRAL ARKANSAS WATER
PHIPPS CHANNON	T - II	MULBERRY WATERWORKS
POSPISIL GARY	D - II	HIGHLAND PUBLIC WATER AUTHORITY
POWELL CODY	D - I	CENTERTON WATERWORKS
SIMMONS ROBERT	D - I	HASKELL WATER SYSTEM
THORNTON PERRY	D - IV	CENTRAL ARKANSAS WATER
TOMLINSON TURNER	D - I	ST. VINCENT INFIRMARY & VETERANS & HEALTH CARE SYSTEM OF THE OZARKS
WALDRIP DAVID	D - VSS	MORO WATERWORKS
WRIGHT WILLIAM	D - I	ALBEMARLE CORPORATION WEST & SOUTH
ZEDLITZ JAMES	D - IV & T - IV	BENTON-WASHINGTON REGIONAL PWA

Mandatory Training Course Schedule

Most Current Listing is at: www.healthy.arkansas.gov/eng/autoupdates/oper/mandtrngall.htm.
Please contact the course sponsor to register for course well in advance of course date.

WATER LICENSE EXAM SESSION **NOT HELD** END OF MOST COURSES.

(Please note all mandatory courses begin at 8:00 a.m.)

Mandatory Course Name	Start Date	Ending Date	Time	CITY	LOCATION	SPONSOR
Basic Water Math	04/02/18	04/16/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Basic Distribution	04/03/18	04/05/18	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Basic Water Math	04/03/18	04/03/18	8:00 AM	Mtn. Home	Charles Newton Emer Serv Trng Center, Midway	ARWA
ADH PWS Compliance	04/04/18	04/04/18	8:00 AM	Mtn. Home	Charles Newton Emer Serv Trng Center, Midway	ADH
Applied Water Math	04/05/18	04/05/18	8:00 AM	Mtn. Home	Charles Newton Emer Serv Trng Center, Midway	ARWA
Applied Water Math	04/16/18	04/30/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Advanced Treatment	04/24/18	04/26/18	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Treatment	04/24/18	04/26/18	8:00 AM	Lowell	Beaver Water Dist, 301 N Primrose Rd	AETA
Basic Water Math	04/30/18	04/30/18	8:00 AM	Hot Springs	AWW&WEA Conf, HS Conv Center @ Hotel HS	AETA
Basic Treatment	04/30/18	05/14/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
ADH PWS Compliance	05/01/18	05/01/18	8:00 AM	Hot Springs	AWW&WEA Conf, HS Conv Center @ Hotel HS	ADH
Applied Water Math	05/01/18	05/01/18	8:00 AM	Hot Springs	AWW&WEA Conf, HS Conv Center @ Hotel HS	AETA
Basic Distribution	05/08/18	05/10/18	8:00 AM	Mtn. Home	Charles Newton Emer Serv Trng Center, Midway	ARWA
Intermediate Distribution	05/08/18	05/10/18	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland, NLR	AETA
Basic Distribution	05/14/18	05/29/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Intermediate Treatment	05/15/18	05/17/18	8:00 AM	Lowell	Beaver Water Dist, 301 N Primrose Rd	AETA
Basic Water Math	05/22/18	05/22/18	8:00 AM	Clarksville	CLW (Operations Bld) 710 E Main (Hwy 64 East)	ARWA
Intermediate Treatment	05/22/18	05/24/18	8:00 AM	Jonesboro	Operations Facility, 105 W Johnson Ave	AETA
ADH PWS Compliance	05/23/18	05/23/18	8:00 AM	Clarksville	CLW (Operations Bld) 710 E Main (Hwy 64 East)	ADH
Applied Water Math	05/24/18	05/24/18	8:00 AM	Clarksville	CLW (Operations Bld) 710 E Main (Hwy 64 East)	ARWA
Advanced Treatment	05/29/18	05/31/18	8:00 AM	Lowell	Beaver Water Dist, 301 N Primrose Rd	AETA
Intermediate Treatment	05/29/18	06/12/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Intermediate Distribution	06/05/18	06/07/18	8:00 AM	Camden	AR Env Training Academy, 4615 Spellman Road	AETA
Intermediate Distribution	06/11/18	06/25/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Basic Water Math	06/19/18	06/19/18	8:00 AM	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	AETA
Intermediate Distribution	06/19/18	06/21/18	8:00 AM	Mtn. Home	Charles Newton Emer Serv Trng Center, Midway	ARWA
Applied Water Math	06/20/18	06/20/18	8:00	Hot	HS Transportation Depot, 100	AETA

Mandatory Course Name	Start Date	Ending Date	Time	CITY	LOCATION	SPONSOR
			AM	Springs	Broadway Terrace	
ADH PWS Compliance	06/21/18	06/21/18	8:00 AM	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	ADH
Basic Distribution	06/26/18	06/28/18	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
Advanced Treatment	07/02/18	07/16/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Advanced Distribution	07/16/18	07/30/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Basic Math	07/17/18	07/17/18	8:00 AM	Springdale	Springdale Training Facility, 525 Oak Ave	AETA
Basic Treatment	07/17/18	07/19/18	8:00 AM	Clarksville	CLW (Operations Bld) 710 E Main (Hwy 64 East)	ARWA
Basic Treatment	07/17/18	07/19/18	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
Applied Water Math	07/18/18	07/18/18	8:00 AM	Springdale	Springdale Training Facility, 525 Oak Ave	AETA
ADH PWS Compliance	07/19/18	07/19/18	8:00 AM	Springdale	Springdale Training Facility, 525 Oak Ave	ADH
Intermediate Distribution	07/24/18	07/26/18	8:00 AM	Paragould	Paragould Light Water & Cable, 1901 Jones Road	AETA
Basic Water Math	07/30/18	08/13/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Basic Water Math	07/31/18	07/31/18	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH PWS Compliance	08/01/18	08/01/18	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Applied Water Math	08/02/18	08/02/18	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Math (Night Class)	08/06/18	08/09/18	8:00 AM	Little Rock	CAW Clearwater Complex, 11 Clearwater Drive	AETA
Applied Water Math	08/13/18	08/27/18	8:00 AM	Internet	http://www.sautech.edu/aeta/	AETA
Intermediate Treatment	08/14/18	08/16/18	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
Basic Distribution	08/21/18	08/23/18	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Distribution	08/21/18	08/23/18	8:00 AM	Rogers	Rogers Water Utility, 521 South 2 nd Street	AETA
Basic Water Math	08/28/18	08/28/18	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
Applied Water Math	08/29/18	08/29/18	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	AETA
ADH PWS Compliance	08/30/18	08/30/18	8:00 AM	Greers Ferry	Community Water System, 299 Lakeshore Drive	ADH
Advanced Treatment	09/04/18	09/06/18	8:00 AM	Little Rock	CAW Clearwater Complex, 11 Clearwater Drive	AETA
Basic Treatment	09/04/18	09/18/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Advanced Distribution	09/11/18	09/13/18	8:00 AM	Jonesboro	Operations Facility, 105 W Johnson Ave	AETA
Basic Distribution	09/17/18	10/01/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Basic Water Math	09/18/18	09/18/18	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Applied Water Math	09/19/18	09/19/18	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
ADH PWS Compliance	09/20/18	09/20/18	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	ADH
Intermediate Distribution	09/25/18	09/27/18	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA

Mandatory Course Name	Start Date	Ending Date	Time	CITY	LOCATION	SPONSOR
Intermediate Treatment	10/01/18	10/15/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Basic Water Math	10/02/18	10/02/18	8:00 AM	Little Rock	CAW Clearwater Complex, 11 Clearwater Drive	AETA
Intermediate Distribution	10/2/18	10/4/18	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Applied Water Math	10/03/18	10/03/18	8:00 AM	Little Rock	CAW Clearwater Complex, 11 Clearwater Drive	AETA
ADH PWS Compliance	10/04/18	10/04/18	8:00 AM	Little Rock	CAW Clearwater Complex, 11 Clearwater Drive	ADH
Advanced Distribution	10/09/18	10/11/18	8:00 AM	Rogers	Rogers Water Utility, 521 South 2 nd Street	AETA
Intermediate Distribution	10/15/18	10/29/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Basic Treatment	10/23/18	10/25/18	8:00 AM	Camden	AR Env Training Academy, 4615 Spellman Road	AETA
Intermediate Treatment	10/23/18	10/25/18	8:00 AM	Clarksville	CLW (Operations Bld) 710 E Main (Hwy 64 East)	ARWA
Advanced Treatment	10/29/18	11/12/18	8:00 AM	Internet	http://www.sautech.edu/aeta/	AETA
Intermediate Treatment	10/30/18	11/01/18	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Advanced Distribution	11/06/18	11/08/18	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Distribution	11/06/18	11/08/18	8:00 AM	Camden	AR Env Training Academy, 4615 Spellman Road	AETA
Advanced Distribution	11/12/18	11/26/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Advanced Treatment	11/27/18	11/29/18	8:00 AM	Lonoke	CLW (Operations Bld) 710 E Main (Hwy 64 East)	ARWA
Basic Water Math	11/27/18	11/27/18	8:00 AM	Jonesboro	Operations Facility, 105 W Johnson Ave	AETA
Applied Water Math	11/28/18	11/28/18	8:00 AM	Jonesboro	Operations Facility, 105 W Johnson Ave	AETA
ADH PWS Compliance	11/29/18	11/29/18	8:00 AM	Jonesboro	Operations Facility, 105 W Johnson Ave	ADH
Applied Water Math	12/03/18	12/17/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Basic Water Math	12/03/18	12/17/18	TBD	Internet	http://www.sautech.edu/aeta/	AETA
Basic Treatment	12/04/18	12/06/18	8:00 AM	Little Rock	CAW Clearwater Complex, 11 Clearwater Drive	AETA
Basic Water Math	12/11/18	12/11/18	8:00 AM	Camden	AR Env Training Academy, 4615 Spellman Road	AETA
Applied Math	12/12/18	12/12/18	8:00 AM	Camden	AR Env Training Academy, 4615 Spellman Road	AETA
ADH PWS Compliance	12/13/18	12/13/18	8:00 AM	Camden	AR Env Training Academy, 4615 Spellman Road	ADH
Basic Water Math	12/18/18	12/18/18	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH PWS Compliance	12/19/18	12/19/18	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Applied Water Math	12/20/18	12/20/18	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA

WATER OPERATOR LICENSE EXAMINATIONS SCHEDULE

The most current Exam Schedule is at: <http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm>

You must register for the exam 45 days in advance. To register on the internet go to www.healthy.arkansas.gov/eng and click on Operator Certification, then select Register- Water License Exam. To register by e-mail provide name, license exam desired, exam session site, and exam date in an email addressed to ADH.Water.Licensing@arkansas.gov. You may register by phone with the Water Licensing Program at (501) 661-2623. Call (501) 661-2623, ask for Water Licensing Program.

Listed below are the dates and locations of examination sessions as scheduled, as of **December 1, 2017**. All Treatment and Distribution exam grades will be available at the sessions. Acceptable photo identification (Drivers License or equivalent) will be required to sit for an Exam. Cell phones, pagers and other electronic communication devices are not allowed. Non-Programmable calculators are allowed in exam sessions.

EXAM DATE	REGISTER DEADLINE	CITY	LOCATION	TIME
6/1/2018	4/17/2018	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00:00 AM
6/1/2018	4/17/2018	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
6/1/2018	4/17/2018	Nashville	Carter Day Center, 200 Lake Nichols Drive	9:00:00 AM
6/8/2018	4/24/2018	Camden	AR Environmental Training Academy, 100 Carr Road	9:00:00 AM
6/8/2018	4/24/2018	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00:00 AM
6/8/2018	4/24/2018	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00:00 AM
9/6/2018	7/24/2018	Mtn. Home	Baxter Co OEM Training Facility, 170 Dillard Dr, Midway	9:00:00 AM
9/7/2018	7/24/2018	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00:00 AM
9/7/2018	7/24/2018	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
9/12/2018	7/30/2018	Hot Springs	ARWA Conference, HS Convention Center	9:00:00 AM
9/14/2018	7/31/2018	Camden	AR Environmental Training Academy, 100 Carr Road	9:00:00 AM
9/14/2018	7/31/2018	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00:00 AM
9/14/2018	7/31/2018	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00:00 AM
12/7/2018	10/23/2018	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00:00 AM
12/7/2018	10/23/2018	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
12/7/2018	10/23/2018	Nashville	Carter Day Center, 200 Lake Nichols Drive	9:00:00 AM
12/14/2018	10/30/2018	Camden	AR Environmental Training Academy, 100 Carr Road	9:00:00 AM
12/14/2018	10/30/2018	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00:00 AM
12/14/2018	10/30/2018	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00:00 AM

The above exam session information is subject to change. You should confirm this information just prior to the scheduled examination period. Also, the latest and complete exam schedule information can be viewed on the Internet at: < <http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm> >.

Remember, you must register for the exam 45 days in advance. Application for License is not registration for an exam

Please verify that your license application has been filed with this office and that the required exam fee for each exam has been paid. The license exams require significant preparation prior to sitting for the exam. The preparation must include extensive study utilizing the study guide and recommended reference manuals/materials. Credit for the mandatory Certification Training Courses must be obtained before taking an exam. Copies of your training documentation must be provided when registering for an exam or provide documentation of its attendance by the exam session.

Major Monitoring, MCL, Treatment Technique, & Licensing Violations

Community & Nontransient Noncommunity Public Water Systems, July – Sept. . 2017

AHTD HARRISON 9 HDQS	Bmon 11	HASKELL WATER SYSTEM	OperLic 10, 11
ATKINS WATER SYSTEM	DBPR 10,11, 12	HIGHLAND PWA	Bmon 11
AUSTIN WATERWORKS	PN 12	HORATIO WATERWORKS	OperLic 10, 11, 12
BATTS-LAPILE WATER ASSN	CCR 10	HORATIO WATERWORKS	PN 12
BAUXITE WATER	OperLic 12	HOSANNA HEIGHTS WATER	TMCL 10
BLACK OAK WATERWORKS	PN 12	HUMPHREY WATERWORKS	Bmon 10
BOIS D'ARC WATER SYSTEM	Bmon 12	HUMPHREY WATERWORKS	GWRmon 10
BOIS D'ARC WATER SYSTEM	GWRmon 12	HUTCHINSON REALTY	IMCL 10, 11, 12
BOIS D'ARC WATER ASSN	OperLic 10, 11, 12	JUNCTION CITY	PN 12
BOIS D'ARC WATER ASSN	PN 10, 11, 12	JUNCTION CITY	OperLic 10, 11, 12
BRINKLEY WATERWORKS	Dmon 10, 11, 12	WATERWORKS	
BRUNO PYATT SCHOOL	PN 12	JUNCTION CITY	Dmon 10
CASA WATER DEPT	DBPR 10, 11, 12	WATERWORKS	
CAVE SPRINGS	OperLic 12	LAKE CITY WATERWORKS	PN 12
WATERWORKS		LEE COUNTY WATER ASSN	DPBR 10, 11, 12
COAL HILL WATERWORKS	OperLic 10	LEE COUNTY WATER ASSN	PN 12
COLLINS WATER ASSN	LCR 12	MARION COUNTY RWD	DBPR 10, 11, 12
CORNING WATERWORKS	RMCL 10, 11, 12	MAYNARD WATERWORKS	OperLic 10, 11,
COTTON PLANT	OperLic 10, 11, 12	MCRAE WATERWORKS	OperLic 11,12
WATERWORKS		MORO WATERWORKS	DBPR 10, 11, 12
COTTON PLANT	PN 11, 12	MORO WATERWORKS	PN 12
WATERWORKS		MOUNTAIN DEVELOPMENT	IMCL 10, 11, 12
COTTONSHED WATERWORKS	OperLic 12	MULBERRY WATERWORKS	DBPR 10, 11, 12
CUSHMAN WATER SYSTEM	Bmon 11	NEW HOPE WATER ASSN	PN 12
DECATUR WATERWORKS	GWRmon 11	NEW LONDON WATER ASSN	PN 12
DERMOTT WATERWORKS	LCR 12	ODEN-PENCIL BLUFF WA	Bmon 11
DES ARC WATER WORKS	DBPR 10, 11, 12	PANGBURN WATERWORKS	TMCL 10, 12
EAST LOGAN CO RURAL	DBPR 10, 11, 12	PANGBURN WATERWORKS	SWTR 10
WATER		PANGBURN WATERWORKS	PN 12
EAST MONROE CO WATER	DBPR 10, 11, 12	PARIS WATERWORKS	DBPR 10, 11, 12
USERS		PARKDALE WATERWORKS	OperLic 11, 12
EAST MONROE CO WATER	PN 12	PARKIN WATERWORKS	GWRmon 10, 11
USERS		PICKENS WATERWORKS	OperLic 11, 12
EAST MONROE CO WATER	Dmon 10, 11, 12	POTTSVILLE WATER ASSN	Dmon 10, 11, 12
USERS		PYATT WATERWORKS	LCR 12
EUDORA WATERWORKS	OperLic 10, 11	PYATT WATERWORKS	PN 10
EUREKA SPRINGS	CCR 10	RAMBO WATER DISTRICT #1	IMCL 10, 11, 12
WATERWORKS		INC	
FAIRCREST WATER ASSN	DBPR 10, 11, 12	RATCLIFF WATERWORKS	DBPR 10, 11, 12
FORDYCE WATER CO	LCR 12	READLAND-GRANDLAKE WA	Dmon 12
FOUKE WATERWORKS	OperLic 12	RIDGEFIELD ESTATES	Bmon 11
FREE HOPE WATER ASSN	OperLic 11	SOUTHWEST ARKANSAS WS	DBPR 10, 11, 12
FREE HOPE WATER ASSN	PN 12	SWIFTON WATERWORKS	OperLic 10, 11, 12
FULTON WATERWORKS	OperLic 12	SWIFTON WATERWORKS	PN 10
GARFIELD WATERWORKS	OperLic 11	TAYLOR WATERWORKS	PN 10
GUM SPRINGS WATER ASSN	PN 11, 12	TRI COUNTY WATER DISTBR	DBPR 10, 11, 12
HAMBURG WATERWORKS	Bmon 10	DIST	
HARMONY WATER ASSN	DBPR 10, 11, 12		

UNITED WATER ASSN	DBPR 10, 11, 12
UNITED WATER ASSN	Dmon 10, 11, 12
UNITED WATER ASSN	PN 12
WALNUT HILL WATER ASSN	DBPR 10, 11, 12
WIEDERKEHR VILLAGE	SWTR 10, 11, 12
WIEDERKEHR VILLAGE	PN 10, 11, 12

**Arkansas Water Works & Water
Environment Association**
Annual Conference and Short School
**April 29 – May 2, 2018 – Hot Springs Convention
Center – Hot Springs, Arkansas**

www.awwwea.org

KEY: Bmon = Bacti Monitoring; BMCL = Bacti MCL; CCR = Consumer Confidence Rule; Dmon = Disinfection By Product Rule Monitoring; DBPR=Disinfection By Product Rule MCL or Treatment Technique; GWRMCL=GWR Treatment Technique; GWRmon= GWR Monitoring or Reporting; PN = Public Notice Rule Tmon = SWTR Major Monitoring; TMCL = SWTR Treatment Technique; SWTR= Various SWTR requirements; Failure to Filter; RMCL = Radiochemical MCL; FMCL = Fluoride MCL; IMCL=Inorganic Chemical MCL; SMCL = Synthetic Chemical MCL; OperLic = Operator Licensing; 10 = Oct 2017, 11 = Nov 2017, 12 = Dec 2017

Attendance at the conference can earn you up to 16 contact hours of directly applicable water license training credit for full participation in the conference. The conference is expected to consist of two (2) full days of training with six (6) sessions each day providing 12 concurrent training topics per session. Typically, no training topic is repeated. The exhibit hall Sunday afternoon through Tuesday morning will have water industry related companies displaying their products.

The Conference will track attendance credit hours by scanning your conference badge barcode at stations Monday and Tuesday with a morning and afternoon scan. You must scan each morning and afternoon to receive full credit.

If you are working on Mandatory Training courses for exam purposes, the conference through Arkansas Environmental Training Academy will offer the AETA Basic Water Math course on Monday and the AETA Applied Water Math course on Tuesday. The ADH Public Water System Compliance course will also be offered on Tuesday. You must register for the conference through AWWWEA and the training provider to attend the courses. All mandatory courses start at 8:00 a.m. and end at 5:00 p.m., with an opportunity to enjoy the conference lunch buffet. Attendance of the entire course is required to receive a course completion certificate. A water license exam session is scheduled for Wednesday, May 2, 2018 at 9:00 am at the convention center.

**Arkansas Water & Wastewater
Managers Association**
Annual Meeting

**July 18 - 21, 2018 – Chateau On The Lake –
Branson, MO**

www.arkwwma.org

The conference consists of three (3) days of manager focused training. Each day has a morning training session. The conference is approved for up to 10 contact hours of directly applicable water license training credit. No mandatory water training courses for exam purposes or license exams are available.

**ARWA Annual Technical Conference &
Exhibition**

September 9 - 12, 2018 – Hot Springs

www.arkansasruralwater.org

The conference consists of two (2) full days of training. Each day has four (4) training sessions with multiple concurrent training topics offered each session. An exhibit hall is available. The conference is approved for up to 16 contact hours of directly applicable water license training credit. The Conference will track attendance credit hours by scanning your conference badge barcode at stations Monday and Tuesday with a morning and afternoon scan. You must scan each morning and afternoon to receive full credit.

No mandatory water training courses for exam purposes are offered during this conference. License Exams are held Wednesday at 9:00 am in the convention center.

**American Water Works Association
Southwest Section Annual Meeting**

**October 28-30, 2018 – Crowne Plaza Hotel –
Baton Rouge, LA**

www.swawwa.org

The conference consists of two (2) full days of training. Each day has six (6) training sessions with multiple concurrent training topics offered each session. An exhibit hall with a wide selection of water industry related companies displaying their latest and best products. The conference is approved for up to 16 contact hours of directly applicable water license training credit is available. No mandatory water training courses for exam purposes or license exams are available.

Return Service Requested

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AWW&WEA District Meetings

See also the Division's web site www.healthyarkansas.com/eng/ for updates.

DATE	TIME	CITY	LOCATION	SPONSOR
<u>May, 2018</u>				
No Meeting Scheduled				Northwest District, AWW&WEA
No Meeting Scheduled				Western District, AWW&WEA
3	5:00 PM	TBA		Central District, AWW&WEA
10	5:00 PM	Stuttgart	Art Center	Eastern District, AWW&WEA
10	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
14	8:30 AM	Russellville	Holiday Inn Express	AR Valley District, AWW&WEA
15	6:00 PM	Watson Chapel	Water Shop	Southeast District, AWW&WEA
17	12:30 PM	Rector	Community Center	Northeast District, AWW&WEA
24	6:00 PM	Arkadelphia	Western Sizzlin	Southwest District, AWW&WEA
<u>June, 2018</u>				
No Meeting Scheduled				AR Valley District, AWW&WEA
7	5:00 PM	TBA		Central District, AWW&WEA
7	5:30 PM	Fort Smith	Picnic, Columbus Acres Rd	Western District, AWW&WEA
14	6:00 PM	Caldwell	Catfish Island	Eastern Central District, AWW&WEA
14	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
13	8:30 AM	Holiday Island	Golf Course Club House	Northwest District, AWW&WEA
19	6:00 PM	Warren	Western Sizzlin	Southeast District, AWW&WEA
21	12:30	Paragould	Iron Horse BBQ	Northeast District, AWW&WEA
21	6:00 PM	Foreman	Foreman Community Center	Southwest District, AWW&WEA
<u>July, 2018</u>				
No Meeting Scheduled				AR Valley District, AWW&WEA
5	5:30 PM	Fort Smith	Western Sizzlin	Western District, AWW&WEA
5	5:00 PM	TBA		Central District, AWW&WEA
11	8:30 AM	Pea Ridge	Emergency Services Bldg.	Northwest District, AWW&WEA
12	6:00 PM	Des Arc	Dondees	Eastern District, AWW&WEA
12	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
17	6:00 PM	Star City	Country Village	Southeast District, AWW&WEA
19	12:30 PM	Walnut Ridge	Wonderful Chinese Buffet	Northeast District, AWW&WEA
26	6:00 Pm	El Dorado	Water Utilities Room	Southwest District, AWW&WEA