

**WATERWORKS OPERATOR CERTIFICATION PROGRAM**  
**SELF-PACED STUDY APPROVED COURSES**  
**Revised November 2023**

Operators enrolling in any approved distance education course must follow the Department of Health's (DOH) [\*Self-Paced Study Approval and Examination Procedure\*](#). To ensure that the Self-Paced Study course you are taking will be accepted toward the waterworks professional growth requirement in Washington, contact us at 253-288-3357 for approval prior to enrolling in any type of self-paced study course.

**The Department requires that certain approved Self-Paced Study courses, where successful completion is determined by passing an examination, have a monitored, closed book examination.** Monitored exam requirements are indicated on the list of approved courses. Both the examination monitor and the student must submit a signed declaration affirming that all examinations have been completed in accordance with this procedure. A copy of the procedure and required forms are available online at [www.wacertservices.org](http://www.wacertservices.org).

The Self-Paced Study courses listed on the following page are the only courses that have been evaluated and meet DOH criteria for waterworks operator education and professional growth requirements. Continuing Education Units (CEU) accepted for successful completion of each course is listed. You must contact the sponsor directly for order and enrollment information.

<p><b>REMEMBER - CEU accepted for some courses in Washington may be different than the CEU awarded by the sponsor.</b></p>
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**COLLEGE COURSES**

Self-Paced Study that is offered for college credit through an accredited college or university and meets the established professional growth relevancy criteria may also be approved. Please review the [\*Self-Paced Study Approval and Examination Procedure\*](#) for more information about completing a relevant course for college credit.

# APPROVED SELF-PACED STUDY COURSE LIST

**FEBRUARY 2024**

American Water College PO Box 152 Valley Mills TX 76689	Phone: 253-232-0832 Web: <a href="http://www.americanwatercollege.org">www.americanwatercollege.org</a>
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Course Title	Course Format	CEU Approved	Monitored Exam Required?
Basic Water Math	Online	0.8	No
Distribution Exam Preparation Grade 1	Online	3.0	No
Distribution Exam Preparation Grade 2	Online	3.0	No
Distribution Exam Preparation Grade 3	Online	3.3	No
Distribution Exam Preparation Grade 4	Online	3.2	No
Distribution System Basics	Online	3.6	No
Distribution System Review	Online	3.0	No
Distribution System Review (4 hours)	Online	0.4	No
Distribution System Review (8 hours)	Online	0.8	No
Distribution System Review (12 hours)	Online	1.3	No
Distribution System Review (16 hours)	Online	1.7	No
Water Treatment Basics	Online	3.6	No
Water Treatment Exam Preparation Grade 1	Online	3.3	No
Water Treatment Exam Preparation Grade 2	Online	3.4	No
Water Treatment Exam Preparation Grade 3	Online	3.8	No
Water Treatment Exam Preparation Grade 4	Online	3.9	No
Water Treatment Review (4 hours)	Online	0.4	No
Water Treatment Review (8 hours)	Online	0.8	No
Water Treatment Review (12 hours)	Online	1.2	No
Water Treatment Review (16 hours)	Online	1.6	No

American Water Works Association 794-7711 6666 West Quincy Avenue Denver, CO 80235	Phone: 800-926-7337 FAX: 303-347-0804 Web: <a href="http://www.awwa.org">www.awwa.org</a>
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Course Title	Course Format	CEU Approved	Monitored Exam Required?
Water Treatment Operator Level 1	Online	6.0	Yes
Water Treatment Operator Level 2	Online	6.0	Yes
Water Treatment Operator Level 1	Online	6.0	Yes
Risk & Resilience of Water and Wastewater Systems EL262	Online	0.4	No



California State University, Sacramento Office of Water Programs Modoc Hall Suite 1001 6000 J Street Sacramento, CA 95819-6025	Phone: 916-278-6142 FAX: 916-278-5959 E-mail: <a href="mailto:wateroffice@owp.csus.edu">wateroffice@owp.csus.edu</a> Web: <a href="http://www.awwa.org">www.awwa.org</a>
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Course Title	Course Format	CEU Approved	Monitored Exam Required?
Small Water System Operation & Maintenance 6th Ed.	Correspondence	9.0	Yes
Small Water Systems Video Information Series	Online	2.0	Yes
Water Distribution System O&M 7 <sup>th</sup> Ed.	Correspondence	9.4	Yes
Water Treatment Plant Operation Vol. I 7 <sup>th</sup> Ed.	Correspondence	5.1	Yes
Water Treatment Plant Operation Vol. II 7 <sup>th</sup> Ed.	Correspondence	10.5	Yes
102-C Math Applications in Water Treatment	Online	2.1	Yes
103-C Math Applications in Water Distribution	Online	1.9	Yes
WAT 702A – Small Water/Wells	Online	1.3	Yes
WAT 702B – Small Water/Treatment Plants	Online	1.3	Yes
WAT 702C – Small Water/Disinfection	Online	1.1	Yes
WAT 702D Small Water Systems: Safety and Introduction to Small System Management	Online	2.2	Yes
WAT 702E Small Water Systems: Laboratory Procedures	Online	2.1	Yes
WAT 703-A Water Distribution System: Safety	Online	1.8	Yes
WAT 703B – Water Distribution/Distribution Facilities	Online	1.6	Yes
WAT 703C – Water Distribution/Disinfection	Online	1.8	Yes
WAT 703D – Water Distribution/Operation & Maintenance	Online	0.8	Yes
WAT 703-E Water Distribution System: Management	Online	1.7	Yes
Water Systems O & M Video Training Series	Video/ Manual	1.5	Yes

CEU Plan P.O. Box 10355 Brooksville, FL 34602	Phone: 352-754-1259 Web: <a href="http://www.ceuplan.com">www.ceuplan.com</a>
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Course Title	Course Format	CEU Approved	Monitored Exam Required?
Analytical Chemistry Techniques	Online	0.3	No
Basic Chemistry	Online	1	No
Common Pitfalls in Chemical Feed	Online	0.4	No
Corrective Maintenance	Online	0.8	No
Corrosion Management	Online	0.4	No
Disinfection Alternatives	Online	0.4	No
Distribution Issues Facing 2023	Online	0.6	No
Drinking Water Laboratory Practices	Online	1	No
Emerging Waterborne Pathogens	Online	0.3	No
Ground Water System Operations	Online	0.4	No

Hazardous Material Effects to Human Health	Online	0.4	No
Introduction to Basic Microbiology & Parasites	Online	0.6	No
Laboratory Safety	Online	0.5	No
Lead and Copper – Rule, Application, and Studies	Online	0.5	No
Pipe, Valves & Fittings, An Introduction	Online	0.4	No
Principles of Chlorination & Dichlorination	Online	0.3	No
SCADA & HMIs, Introduction to	Online	0.3	No
Field Testing a Reduced Pressure Principle Backflow Prevention Device – 3 Valve Test Kit	Online	0.3	No
Toxic & Hazardous Material Handling Procedures	Online	0.4	No
Water Treatment Techniques	Online	1	No

Evergreen Rural Water of Washington (ERWOW)  
P.O. Box 2300  
Shelton, WA 98584

Phone: 360-462-9287  
Web: www.erwow.com  
E-mail: thunter@erwow.org

Course Title	Course Format	CEU Approved	Monitored Exam Required?
Basics Water Works	Online	1.3	Yes
Corrosion Control Treatment Optimization	Online	1.3	Yes
Disinfection By-Products	Online	2	Yes
Drinking Water Filtration A-Z	Online	1.6	Yes
Maintaining Water Quality in Distribution Systems	Online	2.1	Yes
Math Basics	Online	0.9	Yes
Math Review	Online	0.9	Yes
Small Water Systems 1	Online	1.1	Yes
Surface Water Production 1	Online	2.2	Yes
Surface Water Production 2	Online	2.4	Yes
Surface Water Treatment	Online	1	Yes

Jacobs Engineering Group, Inc.  
2020 SW Fourth Ave, Ste 300  
Portland, OR 97201

Phone: 480-771-9300

Course Title	Course Format	CEU Approved	Monitored Exam Required?
Level 1 Water Operator Course	Online	1.7	No

Technical Learning College  
P.O. Box 3600  
Chino Valley, AZ 86323

Phone: 480-771-9300

Course Title	Course Format	CEU Approved	Monitored Exam Required?
Backflow Awareness (11/1/2012)	Correspondence	1.0	Yes
Chemical Contaminants 201	Correspondence	1.6	Yes
Chlorine and Disinfection (9/1/2012)	Correspondence	3.0	Yes
Distribution Basics (10/13/2011)	Correspondence	1.0	Yes

Pumps and Motors (11/1/2012)	Correspondence	2.0	Yes
Water Treatment (10/13/12)	Correspondence	1.0	Yes
Waterborne Diseases (11/1/2012)	Correspondence	4.0	Yes

U.S. Environmental Protection Agency  
The Cadmus Group  
3100 Claredon Boulevard  
Arlington, VA 22201

Phone: 703-247-6121  
Web: [www.cadmusgroup.com](http://www.cadmusgroup.com)

Course Title	Course Format	CEU Approved	Monitored Exam Required?
Responding to a Water Contamination Event – 3 Part Series	Webinar	0.3	Yes

WA Utilities & Transportation Commission  
621 Woodland Square Loop SE  
Lacey, WA 98503

Phone: 360-529-9262

Course Title	Course Format	CEU Approved	Monitored Exam Required?
Underground Utility Locator Training Online	Online	0.3	Yes

Water LMS  
1234 North Market Blvd  
Sacramento, CA 95834

Phone: 916-553-4904  
Web:  
[www.waterlms.com/learn/home](http://www.waterlms.com/learn/home)

Course Title	Course Format	CEU Approved	Monitored Exam Required?
Grade 3 – Water Distribution: Water Sources	Online	0.1	Yes
AWIA – America’s Water Infrastructure Act	Online	0.3	Yes
Beginning Water Math – Part 1	Online	0.2	Yes
Beginning Water Math – Part 2	Online	0.2	Yes
Elements of a Distribution System – Part 1	Online	0.2	Yes
Elements of a Distribution System – Part 2	Online	0.1	Yes
Water Distribution Disinfection - Part 1	Online	0.2	Yes
Water Distribution Disinfection - Part 2	Online	0.2	Yes
Water Quality	Online	0.2	Yes
Water Sources	Online	0.2	Yes
Water Treatment: Conventional Treatment Process	Online	0.1	Yes
Water Treatment Disinfection – Part 1	Online	0.1	Yes
Water Treatment Disinfection – Part 2	Online	0.1	Yes
Water Treatment: Filtration and Additional Treatment Processes	Online	0.1	Yes
Water Treatment: Laboratory Procedures	Online	0.1	Yes
Water Treatment: Operations and Maintenance	Online	0.1	Yes
Water Treatment: Regulations and Administration	Online	0.1	Yes
Water Treatment: Safety	Online	0.1	Yes
Water Treatment: Source Water	Online	0.1	Yes

(ACR) Abnormal Operating Conditions	Online	0.1	Yes
(ACR) Special Pumping Units	Online	0.1	Yes
(ACR) Pumps – Line shaft Turbine Operating Conditions	Online	0.1	Yes
(ACR) Pumps – Normal Operating Conditions	Online	0.1	Yes
(ACR) Pumps Hydraulics	Online	0.2	Yes
(ACR) Pump Piping System	Online	0.2	Yes
(ACR) Selection & Replacement of Mechanical Seals	Online	0.2	Yes
(ACR) Selection & Replacement of Pump Packing	Online	0.1	Yes
(ACR) Centrifugal Pump Repair	Online	0.2	Yes
(ACR) Centrifugal Pump Components	Online	0.3	Yes
(ACR) Centrifugal Pump Types	Online	0.1	Yes
(ACR) Centrifugal Pump Classification & Theory	Online	0.1	Yes
WW: Introduction to Wastewater	Online	0.1	Yes
Hazardous Waste Management for Drinking Water Utilities – Hazardous Waste Transportation	Online	0.2	Yes
Hazardous Waste Management for Drinking Water Utilities – Waste Determination, Handling, Storage & Accumulation Times	Online	0.2	Yes
Hazardous Waste Management for Drinking Water Utilities – What is Hazardous Waste?	Online	0.2	Yes
Hazardous Waste Management for Drinking Water Utilities – Record Keeping and Special Circumstances	Online	0.2	Yes
Hazardous Waste Management for Drinking Water Utilities – Universal Waste & Hazardous Materials Business	Online	0.2	Yes
Why Disinfection? Fundamentals, MCLS, and Investigating Water Borne Pathogens	Online	1	Yes
Why Disinfection? Technologies, Water Borne Cases, and Top 10 Contaminants	Online	1	Yes
Hazardous Waste Management	Online	1	Yes
(ACR) Pumps and Pumping	Online	1.8	Yes
Water Treatment Certification Review 1-2	Online	1.4	Yes
Water Distribution Certification Review 1-2	Online	1.6	Yes
Chlorine O&M Learning Plan	Online	1.4	Yes
[ACR] Chlorine O&M: Disinfection	Online	0.1	Yes
[ACR] Chlorine O&M: Chemical Properties	Online	0.1	Yes
[ACR] Chlorine O&M: Reactions and Effects	Online	0.1	Yes
[ACR] Chlorine O&M: Gas Chlorine Stations	Online	0.1	Yes
[ACR] Chlorine O&M: Cylinders and Connections	Online	0.1	Yes
[ACR] Chlorine O&M: Gas Chlorinators O&M	Online	0.2	Yes
[ACR] Chlorine O&M: Hypochlorinator O&M	Online	0.2	Yes
[ACR] Chlorine O&M: Safety	Online	0.2	Yes
[ACR] Chlorine O&M: Monitoring	Online	0.1	Yes
[ACR] Chlorine O&M: Math	Online	0.2	Yes

Distribution System Construction Learning Plan	Online	1.7	Yes
[ACR] DS Construction: Construction Pre-Planning	Online	0.1	Yes
[ACR] DS Construction: Implementing Construction Plans	Online	0.2	Yes
[ACR] DS Construction: Blueprint Reading	Online	0.1	Yes
[ACR] DS Construction: Traffic Control	Online	0.1	Yes
[ACR] DS Construction: Safety	Online	0.1	Yes
[ACR] DS Construction: Pipe Materials	Online	0.1	Yes
[ACR] DS Construction: Hydrants, Valves and Appurtenance	Online	0.2	Yes
[ACR] DS Construction: Cave-In Protection	Online	0.1	Yes
[ACR] DS Construction: Pipe Laying	Online	0.1	Yes
[ACR] DS Construction: Thrust Blocks	Online	0.1	Yes
[ACR] DS Construction: Corrosion Control	Online	0.1	Yes
[ACR] DS Construction: Bedding Backfill	Online	0.1	Yes
[ACR] DS Construction: Testing Disinfection	Online	0.1	Yes
[ACR] DS Construction: Trenching Techniques	Online	0.2	Yes
Distribution System Learning Plan	Online	1.4	Yes
[ACR] Distribution System: Introduction	Online	0.1	Yes
[ACR] Distribution System: Piping	Online	0.2	Yes
[ACR] Distribution System: Valves	Online	0.2	Yes
[ACR] Distribution System: Fire Hydrants	Online	0.1	Yes
[ACR] Distribution System: Storage	Online	0.2	Yes
[ACR] Distribution System: Booster Station	Online	0.1	Yes
[ACR] Distribution System: Service Connections	Online	0.1	Yes
[ACR] Distribution System: Safety	Online	0.1	Yes
[ACR] Distribution System: Inspection	Online	0.2	Yes
[ACR] Distribution System: Meters	Online	0.1	Yes
Electrical Systems Learning Plan	Online	1.3	Yes
[ACR] Electrical: Atomic Theory	Online	0.1	Yes
[ACR] Electrical: Control Systems	Online	0.2	Yes
[ACR] Electrical: Measurements	Online	0.1	Yes
[ACR] Electrical: Circuits Basics	Online	0.1	Yes
[ACR] Electrical: Electromagnetism	Online	0.1	Yes
[ACR] Electrical: Normal Operations	Online	0.2	Yes
[ACR] Electrical: Power Systems	Online	0.3	Yes
[ACR] Electrical: Reading Electrical Diagrams	Online	0.1	Yes
[ACR] Electrical: Troubleshooting Electrical Problems	Online	0.1	Yes
Fire Hydrant and Valves Learning Plan	Online	0.3	Yes
[ACR] Fire Hydrants: History, Operations and Inspections	Online	0.1	Yes
[ACR] Fire Hydrants: Data Collection & Record Keeping	Online	0.1	Yes
[ACR] Fire Hydrants: Normal Maintenance Repair	Online	0.1	Yes
Hydraulics for Water & Wastewater Operators Learning Plan	Online	1.1	Yes
[ACR] Hydraulics: The Basics	Online	0.1	Yes

[ACR] Hydraulics: Liquids at Rest	Online	0.2	Yes
[ACR] Hydraulics: Flow in Closed Conduits	Online	0.4	Yes
[ACR] Hydraulics: Pump Hydraulics	Online	0.2	Yes
[ACR] Hydraulics: Flow in Open Channels	Online	0.2	Yes
Utility Management Learning Plan	Online	0.8	Yes
[ACR] Utility Management: Introduction	Online	0.1	Yes
[ACR] Utility Management: Organizational Management	Online	0.2	Yes
[ACR] Utility Management: Planning Management	Online	0.1	Yes
[ACR] Utility Management: Personnel Management	Online	0.1	Yes
[ACR] Utility Management: Utility Operation Management	Online	0.1	Yes
[ACR] Utility Management: Utility Financial Management	Online	0.1	Yes
[ACR] Utility Management: Capacity Development Management	Online	0.1	Yes
Water Sources Learning Plan	Online	0.9	Yes
[ACR] Water Sources: Hydrology	Online	0.2	Yes
[ACR] Water Sources: Surface Water Operations	Online	0.2	Yes
[ACR] Water Sources: Groundwater Operations	Online	0.2	Yes
[ACR] Water Sources: Pumping Systems	Online	0.2	Yes
[ACR] Water Sources: Transmission Lines	Online	0.1	Yes

University of Florida TREEO Center  
3900 S.W. 63rd Boulevard  
Gainesville, FL 32608

Phone: 352-392-9570  
Web: [www.treeo.ufl.edu](http://www.treeo.ufl.edu)

Course Title	Course Format	CEU Approved	Monitored Exam Required?
Water Treatment Plant Operations Class C & B	Online	14.4	Yes

Veolia Academy  
7861 Elk Street  
Portage, MI 49002

Phone: 269-491-9887  
Web: <https://academy.veolia.us/>

Course Title	Course Format	CEU Approved	Monitored Exam Required?
Maintenance – Electrical Fundamentals	Online	1.8	No
Maintenance – Pumps and Piping	Online	1.6	No
Water Distribution	Online	3.1	No
Water Treatment	Online	2	No

Zarathom Online Training  
P.O. Box 5190  
Norco, CA 98260

Phone: 884-927-2846  
Web: <https://zarathom.com>

Course Title	Course Format	CEU Approved	Monitored Exam Required?
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3 Hour Treatment Course #1	Online	0.3	No
3 Hour Treatment Course #2	Online	0.3	No
3 Hour Water Regulation Course	Online	0.3	No
3 Hour Water Quality Course	Online	0.3	No
3 Hour Distribution Course #1	Online	0.3	No
3 Hour Distribution Course #2	Online	0.3	No
3 Hour Distribution Course #3	Online	0.3	No
3 Hour Distribution Course #4	Online	0.3	No
3 Hour Source Water Course	Online	0.3	No
3 Hour Math Course #1	Online	0.3	No
3 Hour Math Course #2	Online	0.3	No
3 Hour Safety Course	Online	0.3	No