



RECOMMENDED WQM COURSES:

- WQM 1000 - Introduction to Water Quality Management
- WQM 1005 - Specific Calculations for Water Quality
- WQM 1020 - Water Quality Equipment Maintenance
- WQM 1024 - C & D Review for Water Treatment
- WQM 1025 - C & D Review for Wastewater Treatment

REQUIREMENTS TO GAIN & MAINTAIN OPERATOR LICENSING

RRCC’s Water Quality Management Technology (WQM) program operates closely with state licensing *to prepare students for licensed employment.*

For quick entry into the water or wastewater industry, students are recommended to take the following WQM college courses in the first semester. These courses are designed to prepare students for the state license exams.

MAINTAINING AN OPERATOR LICENSE THROUGH RRCC

Each state license must be renewed every three years with at least three training units (TUs). All WQM courses have approved TUs by the Water / Wastewater Facility Operators Certification Board. TU information is NOT listed in the RRCC catalog or schedule. Each of the disciplines requires its own

certification. Movement through licensure is sequential. For example, you must have a Level D License before qualifying for the Level C exam. For more information on state certification, please consult the Colorado Department of Public Health and Environment, Regulation 100.

License Discipline	D License Requires	C License Requires	B License Requires	A License Requires
Water Treatment	Pass Colorado State Exam. Completion of 1 course or 1 month experience	D License AND 2 years cumulative experience	C License AND 3 years cumulative experience	B License AND 4 years cumulative experience
Wastewater Treatment	Pass Colorado State Exam. Completion of 1 course or 1 month experience	D License AND 2 years cumulative experience	C License AND 3 years cumulative experience	B License AND 4 years cumulative experience
	Level 1 Requires	Level 2 Requires	Level 3 Requires	Level 4 Requires
Water Distribution	Pass Colorado State Exam. Completion of 1 course or 1 month experience	Level 1 AND 2 years cumulative experience	Level 2 AND 3 years cumulative experience	Level 3 AND 4 years cumulative experience
Wastewater Collections	Pass Colorado State Exam. Completion of 1 course or 1 month experience	Level 1 AND 2 years cumulative experience	Level 2 AND 3 years cumulative experience	Level 3 AND 4 years cumulative experience

*Applicable vocational education can reduce the experience requirement by half

STUDENT CONTACT HOURS FOR WQM COURSES

Course	Actual Contact Hours**				
	WT*	WWT*	DS*	CS	SP*
WQM 1000 Introduction to Water Quality Management	20	20	10	10	
WQM 1005 Specific Calculations for Water Quality	40	40	20	20	
WQM 1019 Basic Water Quality Analyses	40	10	10	10	
WQM 1020 Water Quality Equipment Maintenance	20	20	20	20	
WQM 1023 Water Reuse Systems		45			
WQM 1024 C and D Review for Water Treatment Operators	45				
WQM 1025 C and D Review for Wastewater Treatment Operators		45			
WQM 1026 Safety and Security Systems					45
WQM 1030 Water Chemistry	20	15	10		
WQM 1069 International Development	20	15	5	5	
WQM 2000 Hydraulics for Water Quality	10	10	30	10	
WQM 2006 Design Interpretations	20	20	10	10	
WQM 2016 Biological and Bacteriological Water Quality Analyses	15	45			
WQM 2017 Disinfection Techniques	30	30			
WQM 2030 Industrial Monitoring and Pretreatment		45			
WQM 3011 Survey of Environmental Water Acts					30
WQM 3012 Survey of the Safe Drinking Water Act	30	30	30	30	30
WQM 3027 Water Industry Management					45
WQM 3045 Principles of Hydrology	45		45		
WQM 4021 Environmental Sampling and Containment	45	45			
WQM 4027 Managing Water Projects					45
WQM 4028 Water Data Management and Analysis					45
WQM 4055 Interrelationships Between Humans and Water Ecosystems					45
WQM 4060 Source Water Management	45	45			
WQM 4065 Water Toxicity on Environment and Human Health	45	45			

* WT- Water Treatment WWT- Wastewater Treatment DS- Distribution Systems CS- Collection Systems SP- Special Projects

** 1 Contact Hour = 0.1 TU

CERTIFIED COLORADO WATER PROFESSIONALS

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The Water Quality Management Technology Program is located in the Environmental Training Center at the Lakewood Campus. 13302 Fox Run Rd, Lakewood, CO 80228.

Learn more at
www.rccc.edu/wqm

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