

WATER TECHNOLOGY CERTIFICATE

Water Technology is a career oriented non-transfer vocational program offering courses leading to a certificate and/or an Associate degree. The Water Technology program at MSJC emphasizes a real world approach to diagnostic skill building and a thorough understanding of system theory and operations. Professionalism, workplace skills and responsibilities are stressed along with safety and an awareness of hazardous materials control. Graduates are primarily employed by cities, counties, federal agencies, and industry that operate and maintain water treatment, water distribution, wastewater collection and/or wastewater treatment systems. They may also find employment in support roles such as equipment sales. For individuals currently working within these fields, there may be potential for salary and/or career advancement. The Water Technology Certificate should not be confused with certification by the State Water Resources Control Board (SWRCB), American Water Works Association (AWWA), or the California Water Environment Association (CWEA). Certification by the state of California requires the qualified individual to: 1) pass an examination administered by the State Water Resources Control Board, the American Water Works Association, or the California Water Environment Association; 2) meet the experience and/or educational minimum requirements; 3) and, submit a certification application with the applicable fee. The Cooperative Work Experience Education course, CWEE WATR-549, is highly recommended course for students not currently employed in the field. The Water Technology Certificate of Achievement is designed to prepare students who wish to seek entry level employment in the public water supply industry or qualify for a more responsible position within the field.

CT.WT

Program Map Design Your Future!

Begin by exploring MSJC program maps to find career or transfer (<https://msjc.emsicc.com/?radius=®ion=All%20Regions>) opportunities. Program maps show the recommended course sequence that leads to graduation or transfer. The maps were developed by program experts to give you the skills and knowledge you need to succeed.

- **Starting in Spring?** Choose Fall Semester 1 courses.
- **Are you a part-time student?** Start Fall Semester 1 courses and follow the course sequence.

Fall Semester 1		Units
WATR-790 or WATR-795	Basic Waterworks Mathematics (formerly WATR-090) or Wastewater Technology Math	2
WATR-500	Introduction to Water/Wastewater Operations (formerly WATR-100)	1
WATR-503 or WATR-507 or WATR-520	Water Treatment Plant Operations I & II (formerly WATR-103) or Water Distribution I & II (formerly WATR-107) or Wastewater Treatment Plant Operations I & II (formerly WATR-120)	3

WATR-530	Environmental Laws and Regulations (formerly WATR-130)	3
Units		9
Spring Semester 1		
WATR-505 or WATR-509 or WATR-522	Water Treatment Plant Operations III, IV & V (formerly WATR-105) or Water Distribution III, IV & V (formerly WATR-109) or Wastewater Plant Operations III, IV & V (formerly WATR-122)	3
WATR-525 or WATR-537 or WATR-740	Test Procedures for Water and Wastewater (formerly WATR-125) or Introduction to Water Utility Management or Wells, Pumps and Motors (formerly WATR-140)	3
WATR-526 or WATR-533	Introduction to Wastewater Collections or Introduction to Water Use Efficiency	3
Units		9
Total Units		18

Requirements

Course	Title	Credits
Required Courses		
WATR-500	Introduction to Water/Wastewater Operations (formerly WATR-100)	1
WATR-790 or WATR-795	Basic Waterworks Mathematics (formerly WATR-090) Wastewater Technology Math	2
Subtotal		3
Elective Courses		
Select 15 units of the following:		
WATR-503	Water Treatment Plant Operations I & II (formerly WATR-103)	
WATR-505	Water Treatment Plant Operations III, IV & V (formerly WATR-105)	
WATR-507	Water Distribution I & II (formerly WATR-107)	
WATR-509	Water Distribution III, IV & V (formerly WATR-109)	
WATR-520	Wastewater Treatment Plant Operations I & II (formerly WATR-120)	
WATR-522	Wastewater Plant Operations III, IV & V (formerly WATR-122)	
WATR-525	Test Procedures for Water and Wastewater (formerly WATR-125)	
WATR-526	Introduction to Wastewater Collections	
WATR-530	Environmental Laws and Regulations (formerly WATR-130)	
WATR-533	Introduction to Water Use Efficiency	
WATR-537	Introduction to Water Utility Management	
WATR-740	Wells, Pumps and Motors (formerly WATR-140)	
Subtotal		15
Total Units		18

Career Exploration

Discover information about careers that interest you!

1. Take a **Career Quiz** (<https://msjc.emsicc.com/assessment/>) to learn about yourself and receive career suggestions based on your interests.
2. Search available **in-demand jobs** (<https://msjc.emsicc.com/browse-careers/>) in your career areas of interest and find up-to-date salaries and education requirements.
3. Find the **MSJC Program** (<https://msjc.emsicc.com/browse-programs/>) that connects your interests to a career.

Note: There are no guaranteed positions for students completing these programs. Education and work experience required will vary by employer. The salary and benefits for specific occupations will be dependent on work experience, education, background, and employer.

Gainful Employment Disclosures: Water Technology

Gainful Employment Disclosures – 2025

Program Name WATER TECHNOLOGY

This program is designed to be completed in 8 months.
This program will cost \$828 if completed within normal time. There may be additional costs for living expenses. These costs were accurate at the time of posting, but may have changed.

Of the students who completed this program within normal time, the typical graduate leaves with \$0 of debt.

The following States do not have licensure requirements for this profession: California

For more information about graduation rates, loan repayment rates, and post-enrollment earnings about this institution and other postsecondary institutions please click here: <https://collegescorecard.ed.gov/>

NOTE:

Cost per unit \$46

Nonresident Fees- Tuition: \$313

Capital Outlay: \$58

Parking Permits cost \$90 a year or \$45 a semester

RTA Go Pass cost \$16 a year or \$8 a semester

SGA discount sticker (optional) - \$14 a year or \$7 a semester

Student representation fee (optional) - \$4 a year or \$2 a semester

Help a Student Fund (optional) - \$4 a year or \$2 a semester

Student Health Center Fee - \$54 a year or \$27 a semester

*For summer session fees and non-CA resident tuition, please see:

<https://www.msjc.edu/enroll/what-fees-do-i-have-to-pay.html>