Water Technology

San Jacinto Campus
(951) 487-MSJC (6752)
1-800-624-5561
Dean of Instruction, Career Education & Categorical Programs (951) 487-3441

Menifee Valley Campus
(951) 672-MSJC (6752)
1-800-452-3335

Degree(s)

Transfer
None

Non-Transfer:
A.S. in Water Technology [22131 C TWT]
(with General Education Requirements Option A)

Certificate(s)
Certificate in Water Technology [14270 A S.W T]

Employment Concentration Certificate(s)
None

Program Description

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.

Career Opportunities

All career opportunities listed are representative careers in each field. There are no guaranteed positions for students completing these programs. (See: www.onetonline.org)

Our courses can directly prepare our students to take the following certification tests: Water Distribution Water Operator certification (Grades 1-5), Water Treatment Plant Operator (Grades 1-5), and Wastewater Treatment Plant Operator (Grades 1-5) The tests are administered by the state independent of our classes.
Instructional Programs

Non-Transfer Degree

Water Distribution Operator, Water Treatment Operator, Wastewater Treatment Operator, Mechanics, Customer Service Representative, Utility Personnel, Conservation Technician, Meter Readers

Certificate

Water Distribution Operator, Water Treatment Operator, Wastewater Treatment Operator, Mechanics, Customer Service Representative, Utility Personnel, Conservation Technician, Meter Readers

TRANSFER PREPARATION

MSJC offers a range of course work to prepare students to transfer to four-year colleges and universities. Courses that fulfill major requirements for an associate degree in this program might not be the same as those required for transfer into the major at a four year university. All four-year institutions prescribe their own standards for course evaluation and admissions. Prospective transfer students are advised to research careers, degrees and majors in the Career/Transfer Center, access www.assist.org, review the MSJC catalog and meet with a counselor to expedite their transfer plan.

LEARNING OUTCOMES

- Follow safe practices in the laboratory and in plant operations.
- Apply chemical, microbiological and mechanical knowledge and skills to maintain proper plant operations.
- Apply math and hydraulics skills in proper water and wastewater plant, collection system and distribution system operations.
- Understand regulations and operate plant accordingly.
- Interact effectively in oral and written communication.
- Use computers in water and wastewater plant operation.
- Demonstrate work ethic and model professional interaction with the public.

DEGREE

The 18 units in the certificate plus all MSJC General Education Option A requirements for a total of 60 units is required to earn an Associate in Science degree in Water Technology. See counselor for recommended vocational and academic courses.

CERTIFICATE

Certificate in Water Technology (18 units)

Required Core Courses (3 units)

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<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>WATR-100</td>
<td>Introduction to Water/Wastewater Operations</td>
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<tr>
<td>WATR-102</td>
<td>Basic Waterworks Mathematics</td>
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Elective Courses (any 15 units)

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<th>Course</th>
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<tr>
<td>WATR-103</td>
<td>Water Treatment Plant Operations I &amp; II</td>
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<td>WATR-105</td>
<td>Water Treatment Plant Operations III, IV &amp; V</td>
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<td>WATR-107</td>
<td>Water Distribution Plant Operations I &amp; II</td>
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<td>WATR-109</td>
<td>Water Distribution III, IV &amp; V</td>
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<td>WATR-120</td>
<td>Wastewater Treatment Plant Operations I &amp; II</td>
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<td>WATR-122</td>
<td>Wastewater Plant Operations III, IV &amp; V</td>
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<td>WATR-125</td>
<td>Laboratory Procedures for Water and Wastewater</td>
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<td>WATR-130</td>
<td>Environmental Laws and Regulations</td>
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<td>WATR-140</td>
<td>Wells, Pumps and Motors</td>
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