



What Opportunities are Available in the Water and Wastewater Industry?



Check out the Mechanic/Machinist trade!



What do Mechanics and Machinists do?

The Mechanic/Machinist performs preventive, routine and emergency maintenance and repair of a variety of heavy and light equipment, related systems and components.

Why is their work critical?

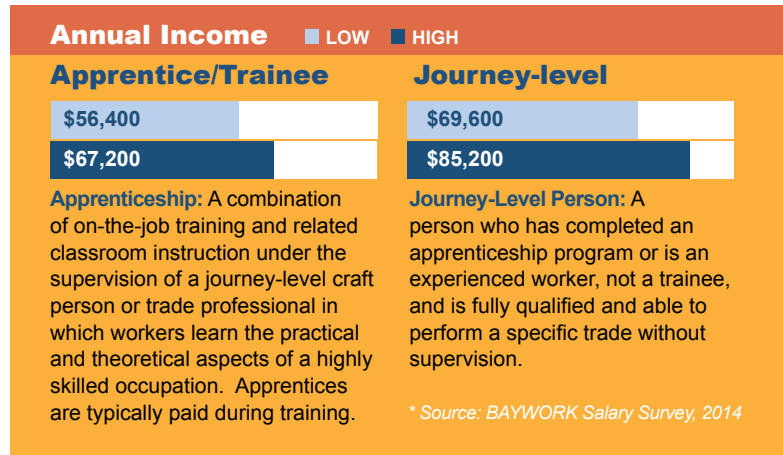
The water and wastewater industry relies on mechanics and machinists to create, maintain and repair mechanical equipment. For example, machinists use their knowledge of metals and their skill with machine tools to plan and carry out the operations needed to make machined products that meet precise specifications.

What are the basic requirements to be a Mechanic/Machinist?

A high school diploma or equivalent, technical coursework, training in machine systems, and on-the-job training (typically 4-5 years) supervised by a journey-level worker.

What are the recommended skills for this trade?

Students and job seekers can best prepare themselves to succeed in career technical education leading to the Mechanic/Machinist field by developing strong English and math skills. Entry requirements to the Mechanic/Machinist trade include high school level algebra, geometry, trigonometry, and English.





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bay area water/wastewater workforce reliability

Where is technical training offered?

APPRENTICESHIPS (COLLEGE AND UNION-BASED):

Advanced Manufacturing and Transportation Apprenticeships of California (Auto and Machinist Programs)

COMMUNITY COLLEGES (CLASSROOM TRAINING ONLY):

- Chabot College** (Machine Tool Technology)
- De Anza College** (CNC Technology/CNC Machinists)
- Diablo Valley College** (Mechanical Technology)
- Laney College** (Industrial Maintenance and Machine Technology)
- Napa Valley College** (Machine Tool Technology)
- San Jose City College** (Machine Technology)
- Santa Rosa Junior College** (Machine Tool Technology)

REGIONAL OCCUPATIONAL PROGRAMS/ ADULT EDUCATION (INTRO COURSES):

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| Marin County ROP
(Auto Technology) | Silicon Valley Career Technical Education
(Engineering for Manufacturing Technology & Automotive Services) |
| Mission Valley ROP
(Automotive Technology) | Tri Valley ROP
(Automotive Specialist) |
| Santa Cruz County ROP
(Engine Repair) | |

HIGH SCHOOLS (INTRODUCTORY COURSES):

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| Castro Valley High School | Petaluma High School |
| Del Mar High School | San Leandro High School |
| Granada High School | Vintage High School |
| John Swett High School | Washington High School |
| Livermore High School | Westmont High School |
| Napa High School | |

For more information, go to the Baywork Training Map (baywork.org/careers/find-training-locations)

Which employers offer on-the-job training?

Training positions (when posted) at:

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| Central Contra Costa Sanitary District | East Bay Municipal Utilities District |
| City of Daly City | Oro Loma Sanitary District |
| City of San Jose | San Francisco Public Utilities Commission |
| City of San Leandro | Santa Clara Valley Water District |
| Wastewater Treatment Plan | Union Sanitary District |
| City of San Mateo | Veolia North America |

For more information, go to the Baywork Internship Map (baywork.org/internships).

Where are tutoring, financial, and job placement assistance offered?

Contact your school to get more information about:

- Financial assistance for college classes such as grants, loans, scholarships
- Tutoring assistance including: Khan Academy, Tutor.com, college-based student services
- Employer partnerships that offer paid work-based learning (ex. apprenticeships and tuition assistance benefits)

How can I learn more?

- BAYWORK.org | cawatercareers.org
- Ask your school about upcoming career fairs, classroom guest speakers, and water facility tours.
 - Internships, summer jobs and apprenticeships
 - Teachers and counselors—find out about facility tours, externships and industry-related instructional resources

Additional resources:

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| Work for Water
workforwater.org | California Apprenticeship Coordinators Association
calapprenticeship.org |
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Ask your school about upcoming career fairs, classroom guest speakers, and water facility tours.



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