



WORK
TRANSFORMS
LIVES



What Opportunities are Available in the Water and Wastewater Industry?

Check out the Electrician trade!



What do Electricians do?

Electricians, electrical workers and electrical line workers install, repair, operate, and maintain the electrical and power systems within the water, wastewater and power industry. They are responsible for installation, maintenance and repair of electrical wiring, control equipment and electrical equipment. Electrical line workers install and maintain the network of power lines that move electricity from generating plants to customers. They routinely work with high voltage electricity. They also maintain equipment such as transformers, substations, voltage regulators, and switches.

Why is their work critical?

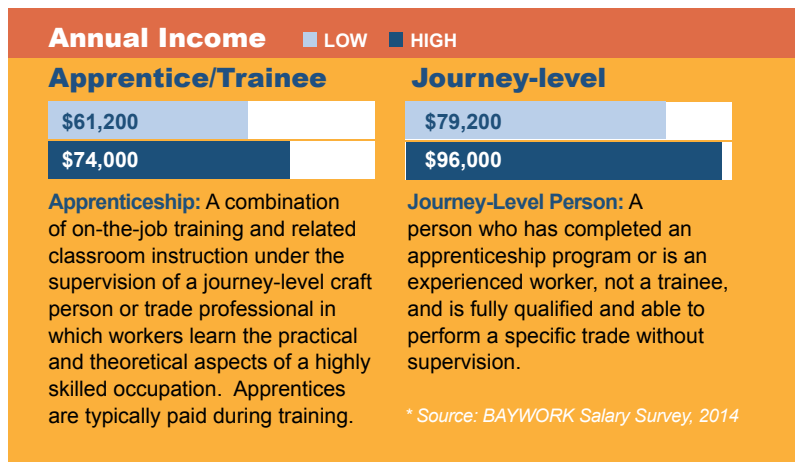
Electrical power is required for many aspects of water/wastewater collection, storage, treatment, and distribution. Skilled electricians, electrical workers, and electrical line workers are necessary to ensure operational reliability for both the construction of new facilities and the operation and maintenance of existing facilities.

What are the basic requirements to be an Electrician?

A high school diploma or equivalent, technical coursework, training in electrical 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 Electrician field by developing strong English and math skills. Entry requirements to the electrician trade include high school level algebra, geometry, trigonometry, and English.





Where is technical training offered?

APPRENTICESHIPS:

Redwood Empire Joint Apprenticeship training Center
(Inside Electrical)

San Francisco Joint Apprenticeship Training Center
(Electrical)

San Mateo Joint Apprenticeship and Training Center
(Inside Electrical)

Santa Clara County Electrical Joint Apprenticeship Training Center (Commercial and Residential Electrical)

Solano-Napa Joint Apprenticeship Training Center
(Inside Electrical)

Tri-County Electrical Joint Apprenticeship Training Center (Inside Electrical)

COMMUNITY COLLEGES (CLASSROOM TRAINING ONLY):

Chabot College (Electrical Training)

College of San Mateo (Electrical Power Systems)

Diablo Valley College (Electrical/Electronics Technology)

Foothill College (General Electrician Programs)

Laney College (Electrical & Electronics Technology)

Los Medanos College (Electrical and Instrumentation Technology)

San Jose City College (Electrical Trainee Courses)

Santa Rosa Junior College (Electrician Courses)

Solano Community College (Water & Wastewater Technology)

REGIONAL OCCUPATIONAL PROGRAMS/ ADULT EDUCATION (INTRO COURSES):

Silicon Valley Career Technical Education (Electrical Maintenance)

OTHER TRAINING RESOURCES

California Apprenticeship Coordinators Association
(Electrical Apprenticeship)

Construction Craft Training Center (Electrical Training)

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:

East Bay Municipal Utilities District

North Marin Water District

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:

Work for Water

workforwater.org

International Brotherhood of Electrical Workers

ibew.org

California Apprenticeship Coordinators Association

calapprenticeship.org

Ask your school about upcoming career fairs, classroom guest speakers, and water facility tours.



Jewish Vocational Service

225 Bush Street, Suite 400 San Francisco, CA 94104

jvs.org | 415.391.3600 | info@jvs.org

Supported by Jewish Community Federation and Endowment Fund. JVS is accredited by the Commission on Accreditation of Rehabilitation Facilities.