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bay area water/wastewater workforce reliability



What Opportunities are Available in the Water and Wastewater Industry?

Check out the Electronic Maintenance Tech/Instrument Tech trade!



What do Electronic Maintenance Techs (EMT) and Instrument Techs (IT) do?

EMT's and IT's are responsible for installing, maintaining and repairing electronic equipment, including the circuits and components used in electronic communications systems, telemetering, power systems, metering, and remote control equipment.

Why is their work critical?

Many complex operations must be performed, monitored, and controlled to safely and reliably collect, store, treat, and deliver water and wastewater and generate and transmit electrical power. Electronic equipment is used throughout the industry to monitor and control factors such as flow and water quality. Therefore EMTs/ITs are crucial to operations.

What are the basic requirements to be an EMT or IT?

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 EMT/IT field by developing strong English and math skills. Entry requirements to the EMT/IT trade include high school level algebra, geometry, trigonometry, and English.

Annual Income		LOW	HIGH
Apprentice/Trainee	Journey-level		
\$64,800	\$78,000		
\$79,200	\$94,800		
<p>Apprenticeship: A combination of on-the-job training and related classroom instruction under the supervision of a journey-level craft person or trade professional in which workers learn the practical and theoretical aspects of a highly skilled occupation. Apprentices are typically paid during training.</p>	<p>Journey-Level Person: A person who has completed an apprenticeship program or is an experienced worker, not a trainee, and is fully qualified and able to perform a specific trade without supervision.</p>		
		* Source: BAYWORK Salary Survey, 2014	



Where is technical training offered?

COMMUNITY COLLEGES (CLASSROOM TRAINING ONLY):

City College of San Francisco (Electronics)

College of Marin
(Electronics Technology)

College of San Mateo
(Electrical Power Systems)

Diablo Valley College
(Electrical/Electronics Technology)

Laney College
(Electrical & Electronics Technology)

Los Medanos College
(Electrical and Instrumentation Technology)

Skyline College (Electronics)

Solano Community College
(Water & Wastewater Technology)

REGIONAL OCCUPATIONAL PROGRAMS/ ADULT EDUCATION (INTRO COURSES):

Berkeley Adult School
(Electronics)

Marin County ROP
(Electronics/Engineering)

Silicon Valley CTE
(Electrical Maintenance)

HIGH SCHOOLS (INTRODUCTORY COURSES):

Berkeley High School

**John O'Connell High School -
San Francisco**

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:

City of San Mateo
East Bay Municipal Utilities District
North Marin Water District
San Francisco Public Utilities Commission
Santa Clara Valley Water District
Zone 7 Water Agency

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

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



Jewish Vocational Service

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