



Construction Electrician's build, maintain, and operate power production facilities and electrical distribution systems for Naval installations.

This is a 5 year enlistment program.

What they do

The duties performed by CEs include:

- installing, maintaining and repairing telephone systems and high and low voltage electrical power distribution networks, both overhead and underground;
- splicing and laying cables, erecting poles, stringing wires and installing transformers and distribution panels;
- installing, repairing and maintaining street lighting, fire alarm, public address, inter-office and telephone switchboard systems;
- installing, maintaining and repairing interior wiring for lighting and electrical equipment;
- working with batteries, electric motors, relays, solenoids and switches;
- operating electrical generators
- reading and interpreting blueprints and preparing sketches for projects;
- making estimates of material, labor, and equipment requirements.

Credit Recommendations

The American Council on Education recommends the following semester hour credits in the associate and vocational degree programs, 3 semester hours for both electronic power distribution systems and residential wiring, 2 semester hours for both ac circuits and electric motor control, and 1 semester hour in dc circuits. An AAS of Applied Electronic Studies with specialty in Electronics can be earned from Thomas Edison State College.

Career Path After Recruit Training

Enlistees are taught the fundamentals of this rating through formal Navy schooling. Advanced technical and operational training in these ratings are available during later stages of career development.

School	Present Location	Approximate Training Time	Subjects	Training Methods
Class "A" Technical School	Sheppard Air Force Base, TX	Approximately 20 Weeks	Basic construction skills and theories required in the CE rating and basic combat skills.	Group and individual instruction.

Following completion of basic technical training, graduates can expect assignments to a Naval Mobile Construction Battalion (NMCB) in Port Hueneme, CA or Gulfport, MS, or to an Amphibious Construction Battalion (ACB) in San Diego, CA or Little Creek, VA. NMCB's operate on a rotating basis between homeport and overseas locations such as Spain, Okinawa or Guam. Seabees receive additional specialized combat and construction skills training during home port duty. Seabees construct buildings, roadways, utility systems and other shore facilities to support the Navy and Marine Corps operational and expeditionary forces worldwide.

Qualifications and Interests

Construction Electricians must be proficient with tools, equipment and machines and **be able to climb to the top of a 35-foot wooden pole, using gaffs (metal spikes on climbing boots)**. The climber must attach a safety strap, circle 360 degrees both ways, disengage the safety strap and descend the pole within a six-minute time limit. The poles do not have steps or pegs. All CE's are required to use lineman's equipment to climb poles and towers. Other important qualifications include knowledge of algebra, a good memory, resourcefulness and curiosity. It is also important that they be able to do detailed work and repetitive tasks, and keep accurate records. They must be able to get along with people and work well as team members. Helpful characteristics include above speaking and writing skills and good physical condition. Normal hearing, color perception, and corrected vision to 20/20 are required.

Working Environment.

CEs may work in a variety of conditions, independently or as members of a large team. Their many different duties may be performed in climates ranging from tropical to arctic.

Opportunities

Opportunities to enter the CE rating are excellent for highly qualified applicants.

About 1,200 men and women work as Construction Electricians in the Navy.

Civilian Occupational Equivalents

To see Related Civilian Occupations for this rating:

CE - <https://www.cool.navy.mil/enlisted/ce.htm>

For more information on opportunities available for this rating, please visit Navy Credentialing Opportunities On-Line (COOL) at <https://www.cool.navy.mil/index.htm>

Since Navy programs and courses are revised at times, the information contained on this rating card is subject to change.

(Revised 10/12)