

Interior Communications Electrician (IC)



Interior Communications Electricians install, maintain and repair the equipment needed for interior communications within ships and shore facilities. These communication systems include public address systems, interior telephone systems, alarm systems, engine telegraphs to communicate orders for changes in engine speed from the bridge (ship's command station) to the engine room, certain kinds of ship control and equipment monitoring devices, the ship's gyrocompass, the rudder position indicator, audio-visual equipment for the ship's TV entertainment systems, advanced navigation and various other equipment.

What they do

The duties performed by ICs include:

- maintaining and repairing interior communications systems;
- preparing and interpreting blueprints, wiring diagrams and sketches;
- installing and inspecting dry cell and storage batteries;
- recharging wet cell batteries;
- testing interior communications and gyrocompass equipment;
- installing telephone and other communications circuits, boxes, switchboards and bell buzzer systems;
- maintaining plotters and dead reckoning equipment;
- maintaining and operating TV systems;
- maintaining and repairing shipboard navigation equipment.

Credit Recommendations

The American Council on Education recommends that semester hour credits be awarded in the vocational certificate and lower-division bachelor's/associate's degree categories for courses taken in this rating on electricity/electronics and applied mathematics.

Qualifications and Interests

It is important that people in this rating have manual dexterity with tools, equipment and machines; above average math skills; resourcefulness; an interest in ideas and information; and the ability to express ideas clearly in speaking to others. Helpful qualities include getting along well with people, writing and record-keeping skills, teamwork, physical strength and the ability to do repetitive tasks. IC's must be U.S. citizens eligible for security clearances. Normal color perception is required.

Working Environment

People in the IC rating work in many different situations, at sea and ashore. While most of their work is performed indoors, it may be in a clean or dirty environment of a shop-like nature, and it may be in any kind of climate or temperature. IC's usually work closely with others. Most systems IC's work on is of the modern solid state electronic type, making the rating a very technical profession.

Career Path After Recruit Training

Enlistees are taught the fundamentals of this rating through on-the-job training or formal Navy schooling. Advanced technical and operational training is available during later stages of career development.

School	Present Location	Approximate Training Time	Subjects	Training Methods
Advance Technical Training	Great Lakes, IL	8 Weeks	Basic technical documentation, knowledge and skills of electricity and electronics. Basic mechanical theory.	Self paced with practical application.
Class "A" Technical School	Great Lakes, IL	4-8 Weeks	CPR, electrical math, basic schematics, AC/DC circuits, solid state characteristics, logic systems required for the rating.	Group instruction and practical application.

Some interior communications electricians who graduate from "A" school go on to advanced training courses such as gyrocompass and advanced TV maintenance. Others are assigned to duty stations where they can continue learning their rating through on-the-job training. IC's are assigned to ships and shore stations in the United States and overseas. During a 20-year period in the Navy, IC's spend about 65 percent of their time assigned to fleet units and 35 percent to shore stations.

Opportunities

Opportunities for placement in this rating are good for highly qualified applicants. About 2,200 men and women work in the IC rating.

49-2097.00 Electronic Home Entertainment Equipment Installers and Repairers
49-2098.00 Security and Fire Alarm Systems Installers

Related Civilian Jobs-- O*Net SOC Code O*Net SOC Title

- 11-1021.00 General and Operations Managers
- 13-1041.00 Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation
- 13-1073.00 Training and Development Specialists
- 15-2091.00 Mathematical Technicians
- 17-2071.00 Electrical Engineers
- 27-4011.00 Audio and Video Equipment Technicians
- 43-1011.00 First-Line Supervisors/Managers of Office and Administrative Support Workers
- 43-2021.00 Telephone Operators
- 47-1011.00 First-Line Supervisors/Managers of Construction Trades and Extraction Workers
- 47-2111.00 Electricians
- 49-1011.00 First-Line Supervisors/Managers of Mechanics, Installers, and Repairers
- 49-2021.00 Radio Mechanics
- 49-2022.00 Telecommunications Equipment Installers and Repairers, Except Line Installers
- 49-2093.00 Electrical and Electronics Installers and Repairers, Transportation Equipment
- 49-2094.00 Electrical and Electronics Repairers, Commercial and Industrial Equipment

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

(Rev 01/08)