

Cryptologic Technician (Maintenance) (CTM)



The Cryptologic Technician Maintenance branch offers a career in the installation, configuration, diagnosis, and repair of state-of-the-art electronic, computer, and network hardware and software systems.

Obligation: A School guarantee requires an active duty obligation of four years. Enlistees enter as E-1s (seaman recruits).

Advancement: Advancement to E-2 (apprentice within a rating) will be made after successful completion of recruit training and completion of all advancement in rate requirements (including minimum time in rate). Advancement to paygrade E-3 (seaman) will be made after completion of all advancement-in-rate requirements (including minimum time in rate). Advancement to paygrade E-4 (petty officer third class) will be made after successful completion of initial school training and after all advancement-in-rate requirements (including minimum time in rate) are completed.

What They Do:

The duties of the CTM include:

- Perform hardware and software isolation and repair of state-of-the-art electronic, computer and network equipment and related systems using complex test and analysis equipment, diagnostic software, hand tools and technical publications;
- Perform computer and electronic system hardware and software installation, configuration and modification;
- Analyze the configuration and monitor the operation of computer telecommunications and networking systems;
- Maintain fleet cryptologic permanent and carry-on direct support systems required in special land, sea surface and subsurface operations.

Credit Recommendations

The American Council on Education recommends that a total of sixteen semester hour credits be awarded in the vocational certificate or lower-division bachelor's/associate's degree categories for courses taken in this rating on introductory electronics, digital electronics, circuit analysis and trouble-shooting techniques.

Qualifications and Interests

CTMs must learn advanced computer, network, and electronic system troubleshooting methods based on complicated technical concepts. They must be resourceful, logical and possess an average degree of manual dexterity and be of exceptional character. Applicants must be U.S. citizens and meet eligibility requirements for continuous access to sensitive compartmented information (SCI). Eligibility for a top secret clearance is determined by the results of a Single Scope Background Investigation followed by a reinvestigation every five years. Normal color perception and normal hearing are required.

Career Path After Recruit Training

All CTMs receive basic electronics, computer hardware, network, and software training. Advanced technical training is available throughout the CTM's career. Assignments to general duty may be required prior to advanced training assignment.

School	Present Location	Approximate Training Time	Subjects	Training Methods
CTM Preparatory School	Pensacola, FL.	5 weeks	Basic electricity and electronics, and electronics technology	Group-paced classroom and lab instruction
CTM Class "A" Technical School	Pensacola, FL.	12 weeks	Electronic test equipment, digital fundamentals and logic circuits, troubleshooting techniques, computing and electronic equipment hardware basics, software operating systems, electronic systems troubleshooting, software recovery methods, network security principles, computer PC and workstation repair, networking concepts and components, application software.	Group-paced classroom and lab instruction

Because most CTM positions require specific job skills, most CTM "A" school graduates receive appropriate class "C" advanced training in accordance with school availability, service needs and individual qualifications. CTMs normally are assigned to two tours of sea duty followed by one tour of shore duty.

Working Environment

CTM are assigned to equipment installation activities, electronic maintenance, and computer networking system departments and divisions. They may be assigned to either day work or shift work in a large facility or one of the individual or two-person independent duty assignments at sea or ashore.

Departments and divisions are usually divided into specialized maintenance shops and are normally air-conditioned, well-lighted, and completely equipped.

Opportunities

The CTM rating is divided into two major career-training communities: fleet cryptologic maintenance on board Surface ships and fleet cryptologic maintenance support in direct support roles on surface and subsurface combatants. Duty assignments are determined by the CTM's qualifications, past duty history and vacancies.

Opportunities for formal training in advanced computer-based systems are provided for about 50 percent of all CTM assignments. More than 800 men and women work in this rating.

Related Civilian Jobs O-Net SOC Code

- 15-1081.00 Network Systems and Data Communications Analysts
- 17-3023.01 Electronics Engineering Technicians
- 27-4011.00 Audio and Video Equipment Technicians

- 27-4012.00 Broadcast Technicians
- 27-4013.00 Radio Operators
- 27-4014.00 Sound Engineering Technicians
- 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
- 49-2094.00 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.

(Revised 01/08)