

# CTM

## The Jumpstart on an Elite Career

High tech, complex cutting edge systems and computers.



**Cryptologic Technician (Maintenance)  
CTM**

**The Cryptologic Technician Maintenance (CTM)** 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:** Extensive in-service training requires an active duty obligation of six years. Applicants enlist for four years and concurrently execute an agreement to extend their enlistment for 24 months. 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. 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. Advancement to E-3 and E-4 is contingent upon maintaining eligibility in the Advanced Electronics Field.



### What They Do:

**The duties of the CTM-AEF 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
- Calibrate and repair a wide variety of precision electronic test equipment
- Perform information security and computer network defense functions for secure networks and communication 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

CTM-AEFs 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.

### Working Environment

CTM-AEFs 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-AEF rating is divided into three major career-training communities: fleet cryptologic and direct support systems, signal collection and special project systems and information networking systems. Duty assignments are determined by the CTM-AEF's qualifications, past duty history and vacancies.

Opportunities for formal training in advanced computer-based systems are provided for about 90 percent of all CTM-AEF assignments. More than 1,600 men and women work in this rating.

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## Career Path After Recruit Training

All CTM-AEFs receive basic electronics, computer hardware, network, and software training. Advanced technical training is available throughout the CTM-AEF'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	NTTC Pensacola, FL.	7 weeks	Basic electricity and electronics, and electronics technology	Group-paced classroom and lab instruction
CTM Class "A" Technical School	NTTC Pensacola, FL.	20 weeks	Electronic test equipment, digital fundamentals and logic circuits, RF concepts, transmission lines, 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, LAN/WAN maintenance, distributed network and global communications configurations, protocols, and signal standards.	Group-paced classroom and lab instruction

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

All personnel now receive sea pay at sea (E-1 to E-9).

### Related Civilian Jobs--Dept. of Labor Dictionary of Occupational Titles

- Data Communications Analyst
- User Support Analyst
- Computer Security Specialist
- Computer Security Coordinator
- Computer Systems Hardware Analyst
- Microcomputer Support Specialist
- Computer Operator
- Television and Radio Repairer
- Electronic Equipment Repairer
- Electronic Tester
- Electrical Instrument Repairer
- Central Office Repairer Supervisor
- Station Installer and Repairer
- Automatic Equipment Technician
- Central Office Repairer
- Equipment Installer
- Data Communications Technician
- Radio Mechanic
- Meteorological Equipment Repairer
- Electrician
- Field Service Engineer



**CTM Cryptologic Technician (Maintenance)**

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

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