

Navy Advancement Center

Web site: <http://www.advancement.cnet.navy.mil>

**Advancement Handbook
for
Electronics Technician
(Communications)(Submarine)
(For advancement exams designated as ETR)**

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PREFACE

The purpose of this Advancement Handbook is to help you prepare for Navywide Electronics Technician (Communications) (Submarine) advancement-in-rating examinations. It is divided into four major “parts” and one appendix. The four “parts” list the general skills areas on which you may be tested and the specific topics on which the test questions may be based. The appendix lists the publications from which the test questions may be drawn. By using the information in this handbook and the bibliography for the exam you will be taking, you can concentrate your studying on the areas that may be tested and can get the most out of your limited study time.

Keep in mind that the four “parts” are cumulative; that is, you are responsible for the skills assigned to the paygrade you are testing for, as well as the skills assigned to your present paygrade and all paygrades below. If you are tested on skills and knowledges from lower paygrades, it will be at the level of the paygrade for which you are testing. For example, if the topic is the “CMS” system, an ETR3 candidate might be asked about the organization within the CMS system, an ETR2 candidate might be asked about inventories, an ETR1 candidate might be asked about receiving OTAT, and an ETRC might be asked about how to start a CMS account.

As you prepare for the exam, remember that the exam is designed to test your knowledge of your profession. You gain professional knowledge by doing your job, completing your qualifications cards, and studying the references associated with your rating. The best way you can prepare for an advancement exam is to:

1. Learn as much as you can about your job. Complete as many of your qualification cards as you can. Know as much about the construction and operation of your equipment as you can. Continually ask questions. Find out not only what happens, but also why it happens and what to do if it doesn't happen as expected. Make this a continuing process.

2. As soon as the bibliography for the exam you plan to take is available, get a copy and start reviewing the references listed on it. Don't try to memorize the information the references contain. Use that information to “sharpen” the knowledge and skills you already have.

Finally, remember that advancement competition is keen, so your keys to advancement include not only comprehensive advancement examination study but also sustained superior performance.

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Part 1

Advancement Handbook for ETR3

Advancement Handbook for ETR3

GENERAL SKILLS AREA	EXAM EXPECTATIONS
Electronic Warfare Systems	You can expect questions on the following areas:
Operate and maintain electronic support measure (ESM) equipment	• ESM/EW systems purpose and principles of operation • ESM/EW reporting procedures • System operating characteristics (frequency ranges, scan types and signal strength, modes of operation, etc.) • Operating procedures (front panel controls and indicators, adapter switches and indicators, system setup, turn-on, and self-test procedures, system shut-down and emergency shut-down procedures, etc.) • Equipment detailed functional description • ESM watchstanding requirements and procedures • How to use the library storage capability, including entry • How to use and interpret threat ban parameters • Safety precautions • Security precautions
Identify, analyze, and evaluate radio frequency (rf) signals	• Identification, analysis and evaluation procedures