



# **ELECTRONICS TECHNICIAN 3**

**BUREAU OF NAVAL PERSONNEL**

**NAVY TRAINING COURSE**

**NAVPERS 10188-B**

## PREFACE

This training course is written for men of the U. S. Navy and Naval Reserve who are interested in qualifying for advancement to Electronics Technician, Third Class. Combined with the necessary practical experience, this training course will aid the Electronics Technician in preparing for the advancement-in-rating examination.

The qualifications for Electronics Technicians are included in appendix II. This training course contains information on each examination subject; and insofar as it is practical in a training course, information is, also included on each practical factor. Because examinations for advancement in rating are based on these qualifications, interested personnel should refer to them for guidance. The latest qualifications for advancement in rating should always be consulted.

The ET3 training course is prepared by the U. S. Navy Training Publications Center, Washington, D. C., which is a field activity of the Bureau of Naval Personnel. Technical assistance was provided by the Electronics Technician School (Class A) Naval Training Center, Great Lakes, Illinois; the Bureau of Ships; and other activities cognizant of electronic equipment and the duties of Electronics Technicians.

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# **THE UNITED STATES NAVY**

## **GUARDIAN OF OUR COUNTRY**

The United States Navy is responsible for maintaining control of the sea and is a ready force on watch at home and overseas, capable of strong action to preserve the peace or of instant offensive action to win in war.

It is upon the maintenance of this control that our country's glorious future depends; the United States Navy exists to make it so.

## **WE SERVE WITH HONOR**

Tradition, valor, and victory are the Navy's heritage from the past. To these may be added dedication, discipline, and vigilance as the watchwords of the present and the future.

At home or on distant stations we serve with pride, confident in the respect of our country, our shipmates, and our families.

Our responsibilities sober us; our adversities strengthen us.

Service to God and Country is our special privilege. We serve with honor.

## **THE FUTURE OF THE NAVY**

The Navy will always employ new weapons, new techniques, and greater power to protect and defend the United States on the sea, under the sea, and in the air.

Now and in the future, control of the sea gives the United States her greatest advantage for the maintenance of peace and for victory in war.

Mobility, surprise, dispersal, and offensive power are the keynotes of the new Navy. The roots of the Navy lie in a strong belief in the future, in continued dedication to our tasks, and in reflection on our heritage from the past.

Never have our opportunities and our responsibilities been greater.

# CONTENTS

CHAPTER	Page
1. Advancement. . . . .	1
2. Electronics Safety Precautions. . . . .	9
3. Component and Equipment Nomenclature and Designations . . . . .	17
4. Technical Publications and Records . . . . .	33
5. Electronic Installations. . . . .	43
6. Use of Test Equipment. . . . .	98
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7. Use of Test Equipment . . . . .	128
8. Switches, Switchboards, and Switching Systems . . . . .	177
9. Common Operating Adjustments—Radio Transmitters and Receivers . . . . .	210
10. Common Operating Adjustments—Teletype and Facsimile . . . . .	254
11. Common Operating Adjustments—Radar and Loran . . . . .	296
12. Maintenance Procedures and Techniques, Part I . . . . .	317
13. Maintenance Procedures and Techniques, Part II. . . . .	348
APPENDIX	
I. Training Film List. . . . .	381
II. Qualifications for Advancement in Rating. . . . .	388
INDEX . . . . .	395

# READING LIST

## NAVY TRAINING COURSES

Basic Electricity, NavPers 10086-A  
Basic Electronics, NavPers 10087-A  
Introduction to Electronics, NavPers 10084  
Basic Handtool Skills, NavPers 10085-A  
Blueprint Reading and Sketching, NavPers 10077-B  
Mathematics, Vol 1, NavPers 10069-B  
Mathematics, Vol 2, NavPers 10070-A

## OTHER PUBLICATIONS

U. S. Navy Safety Precautions, Chapter 18 OPNav 34P1  
BuShips Technical Manual Chapter 67

## USAFI TEXTS

United States Armed Forces Institute (USAFI) courses for additional reading and study are available through your Information and Education officer.\* The following courses are recommended;

B150-02 Review Arithmetic  
B151 Basic Ideas of Mathematics  
B152 General Mathematics  
C164 Algebra, Course 1  
C166 Algebra for Problem Solving  
C290 Physics I  
B781 Fundamentals of Electricity  
B885 Understanding Radio  
B890 Radio Servicing, 1  
B891 Elements of Radio Servicing

\* "Members of the United States Armed Forces Reserve components, when on active duty, are eligible to enroll for USAFI courses, services, and materials if the orders calling them to active duty specify a period of 120 days or more, or if they have been on active duty for a period of 120 days or more, regardless of the time specified on the active duty orders."