

Navy Advancement Center

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

Advancement Handbook for Electronics Technician (Surface)

The August 1999 handbook was reviewed during July 2002. This review resulted in numerous changes to the technical content. Discard previous versions and use this copy only.

PREFACE

The purpose of the Advancement Handbook is to help you focus your preparation for Navywide advancement-in-rating examinations. The bibliographies (BIBs) together with this handbook form a comprehensive examination study package. Since this handbook provides skill and knowledge components for each paygrade of the ET rating, it helps you concentrate your study on those areas that may be tested. This feature will help you get the most out of your study time.

Each page in Parts 1 through 4 of this Advancement Handbook presents general skill areas, specific skill areas, the knowledge factors associated with each skill area, the pertinent references that address each skill, and the subject areas that may be covered on the examination. The skill statements describe the skills you are expected to perform for each paygrade. The skill statements are cumulative; that is, you are responsible for the skills for the paygrade you are competing for, your present paygrade, and all paygrades below.

Although this handbook is very comprehensive, it cannot cover all the tasks performed in the rating. As a result, the advancement examinations may contain questions more detailed than described in the “*Exam Expectations*” section of the skill areas.

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

Prepared by
Navy Advancement Center Department,
Naval Education and Training Professional
Development and Technology Center

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Part 1

Advancement Handbook for ET3

Advancement Handbook for ET3

General ET <i>Skill Area</i>	Radar Systems
A <i>skill</i> you are expected to perform from the General Skill Area above:	Evaluate performance, troubleshoot, replace components, adjust, align, test, and operate radar equipment.
<i>Knowledge</i> you should have to perform this skill:	• AC and DC theory • Circuit protection • Schematic reading • Electronic emissions • Solid state devices • Power supplies • Amplifiers • Wave shaping • Wave generation • Wave propagation • Microwave principles • Modulation principles • Logic circuits • Test equipment • Radar principles • IFF principles • Test methods and practices • Electronic and electrical safety
<i>References</i> you should study to gain the knowledge you need to perform this skill:	• Navy Electricity and Electronics Training Series, Module 1, Chapters 1 through 3 (NAVEDTRA 14173) • Navy Electricity and Electronics Training Series, Module 2, Chapters 1 through 5 (NAVEDTRA 14174) • Navy Electricity and Electronics Training Series, Module 3, Chapters 1 through 3 (NAVEDTRA 14175) • Navy Electricity and Electronics Training Series, Module 4, Chapters 1 through 3 (NAVEDTRA 14176)

	• Navy Electricity and Electronics Training Series, Module 6, Chapters 1 through 3 (NAVEDTRA 14178) • Navy Electricity and Electronics Training Series, Module 7, Chapters 1 through 4 (NAVEDTRA 14179) • Navy Electricity and Electronics Training Series, Module 8, Chapters 1 through 3 (NAVEDTRA 14180) • Navy Electricity and Electronics Training Series, Module 9, Chapters 1 through 4 (NAVEDTRA 14181) • Navy Electricity and Electronics Training Series, Module 10, Chapters 1 through 4 (NAVEDTRA 14182) • Navy Electricity and Electronics Training Series, Module 11, Chapters 1 through 3 (NAVEDTRA 14183) • Navy Electricity and Electronics Training Series, Module 12, Chapters 1 through 3 (NAVEDTRA 14184) • Navy Electricity and Electronics Training Series, Module 13, Chapters 1 through 3 (NAVEDTRA 14185) • Navy Electricity and Electronics Training Series, Module 16, Chapters 1 through 7 (NAVEDTRA 14188) • Navy Electricity and Electronics Training Series, Module 18, Chapters 1 through 4 (NAVEDTRA 14190) • Navy Electricity and Electronics Training Series, Module 19, Chapter 1 (NAVEDTRA 14191) • Navy Electricity and Electronics Training Series, Module 21, Chapter 1 (NAVEDTRA 14193) • Electronics Technician, Volume 1, Chapters 1 through 3 (NAVEDTRA 14086) • Electronics Technician, Volume 4, Chapters 1 through 4 (NAVEDTRA 14089) • Electronics Technician, Volume 7, Chapters 1 through 3 (NAVEDTRA 14092) • Electronics Technician, Volume 8, Chapters 1 through 5 (NAVEDTRA 14093)
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