Navy Advancement Center

Advancement Handbook for Fire Control Technician

This Advancement Handbook was last revised in: April 1999.

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 FT 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.

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Part 1

Advancement Handbook for FT3

Advancement Handbook for FT3

General *Skill Area*	**Tactics**
A *skill* you are expected to perform from the General Skill Area above:	**Conduct Daily Systems Operation Tests (DSOT) on fire control equipment**
Knowledge you should have to perform this skill:	How to: • Conduct Torpedo Tube Launching Systems (TTLS) equipment Daily Systems Operations Tests (DSOT) • Conduct accuracy checks between Combat Control Systems (MK-117/CCS MK-1/BSY-1/MK-118/CCS MK-2) and shipboard sensors
References you should study to gain the knowledge you need to perform this skill:	• NAVSEA OD 44979 series • *Submarine Electronic/Optic Employment Manual*, NWP 3-13.10 • *MK-117 FCS/CCS MK-1 Operating Guidelines*, NWP 3-21.52.21 • *AN/BSY-1 Operating Guidelines*, NWP 3-21.52.22 • *MK-118 DWS/CS Operating Guidelines*, NWP 3-21.52.23 • *CCS MK-2 Operating Guidelines*, NWP 3-21.52.24 • *TBT MK-17 Mod 8-11*, NAVSEA OP 3412
Exam Expectations. These are subject areas you should know to help you answer exam questions correctly:	You can expect questions on conducting preunderways, especially those concerned with interfaces between fire control, sonar and other ship's sensor systems. There will also be questions concerning daily routines, such as watch-to-watch procedures.

General *Skill Area*	**Tactics**
A *skill* you are expected to perform from the General Skill Area above:	**Conduct transmission checks on fire control equipment**
Knowledge you should have to perform this skill:	How to: • Conduct accuracy checks between Combat Control Systems (CCS) and shipboard sensors • Conduct CCS weapons transmission checks • Conduct firing craft operation procedures
References you should study to gain the knowledge you need to perform this skill:	• *Submarine Force Nuclear Weapons Manual*, CSL/CSPINST 8120.2A • *Submarine Force Conventional Weapons Manual*, CSL/CSPINST 8500.4A • NAVSEA OD 44979 series • *TLAM Launch Platform Weapons Systems and Tactics*, NWP 3-03.2 • *Submarine Electronic/Optic Employment Manual*, NWP 3-13.10 • *Submarine Strike and Antiship Missile Employment Manual*, NWP 3-20.72 • *JMCIS Operating Guidelines for Submarine Installations*, NWP 3-21.52.03 • *MK-117 FCS/CCS MK-1 Operating Guidelines*, NWP 3-21.52.21 • *AN/BSY-1 Operating Guidelines*, NWP 3-21.52.22 • *MK-118 DWS/CS Operating Guidelines*, NWP 3-21.52.23 • *CCS MK-2 Operating Guidelines*, NWP 3-21.52.24 • *Torpedo Reference Manual – MK 48 Torpedo*, NWP 3-21.53.1 • *Submarine Torpedo Employment Manual*