

Navy Advancement Center

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

Advancement Handbook for Aviation Structural Mechanic (Safety Equipment) (AME)

**The May 2001 handbook was reviewed during May 2002.
This review resulted in no changes to the technical content.**

PREFACE

The purpose of the Advancement Handbook is to help you focus your preparation for Navy-wide 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 Aviation Structural Mechanic (Safety Equipment) (AME) 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 AME3

Advancement Handbook for AME3

<p>General AME <i>Skill Area</i></p>	<p>Mechanical Maintenance</p>
<p>A <i>skill</i> you are expected to perform from the General Skill Area above:</p>	<p>Maintain heat exchanger fans</p>
<p><i>Knowledge</i> you should have to perform this skill:</p>	<ul style="list-style-type: none"> • Procedures used to troubleshoot heat exchanger fans • Procedures used to clean and inspect heat exchanger fans • Procedures used to remove and replace heat exchanger fans • Procedures used to perform functional checks on heat exchanger fans • Procedures used to perform functional checks on components of air conditioning systems
<p><i>References</i> you should study to gain the knowledge you need to perform this skill:</p>	<ul style="list-style-type: none"> • Technical Manual Principles of Operation Environmental Control System F-14 (NAVAIR 01-F14AAA-2-2-2) • Technical Manual Utility Systems, P-3 (NAVAIR 01-75PAA-2-2.4)
<p><i>Exam Expectations.</i> These are subject areas you should know to help you answer exam questions correctly:</p>	<p>You can expect questions about procedures used to troubleshoot, clean, inspect, remove, and replace heat exchanger fans. You can also expect questions about performing functional checks on heat exchanger fans and components of air conditioning systems. Questions may be of general in nature or specific to a type of platform.</p>