



DEPARTMENT OF THE NAVY
BUREAU OF MEDICINE AND SURGERY
2300 E STREET NW
WASHINGTON DC 20372-5300

IN REPLY REFER TO

BUMEDINST 1532.1K
BUMED-23
4 Jun 97

BUMED INSTRUCTION 1532.1K

From: Chief, Bureau of Medicine and Surgery

Subj: U.S. NAVY AND MARINE CORPS AVIATION SELECTION TEST
BATTERY

Ref: (a) Examiner's Manual for the U.S. Navy and Marine Corps
Aviation Selection Tests, NOMI P-5098C (1997)

1. Purpose. To revise responsibilities and clarify policies to manage and use subject test battery. This is a complete revision and must be read in its entirety.

2. Cancellation. BUMEDINST 1532.1J.

3. Scope. Applies to the control and administration of all materials pertaining to the subject test battery, the verification and management of test scores, and the definition of minimum qualifying scores for acceptance to aviation training.

4. Background

a. The U.S. Navy and Marine Corps Aviation Selection Test Battery (ASTB) consists of the Math Verbal Test (MVT), the Mechanical Comprehension Test (MCT), the Spatial Apperception Test (SAT), the Aviation and Nautical Test (ANT), the Biographical Inventory (BI), and the Aviation Interest Test (AI). Six scores are derived from weighted combinations of these tests: (1) Academic Qualifications Rating (AQR); (2) Pilot Flight Aptitude Rating (PFAR); (3) Flight Officer Flight Aptitude Rating (FOFAR); (4) Pilot Biographical Inventory (PBI); (5) Flight Officer Biographical Inventory (FOBI); and (6) the Officer Aptitude Rating (OAR).

b. This battery of tests was developed by actuarial methods to predict the success of students in aviation officer training programs. The complete test battery is used as a primary selection instrument for aviation programs by the Navy, Marine Corps, and Coast Guard. The OAR score (derived from the MVT and MCT only) is used for selecting nonaviation candidates.

c. Continued success of this testing program depends upon security of testing materials, strict adherence to standardized procedures for testing, and timely processing of completed tests.

5. Test Materials. For the purposes of this instruction, the term test materials refers to the following:

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a. Examiner's Manual for the U.S. Navy and Marine Corps Aviation Selection Test Battery, NOMI P-5098C (1997).

b. Academic Qualification Test

ASTB - Book 1, Form 1 (NOMI-1532/2A)
ASTB - Book 2, Form 1 (NOMI-1532/2B)
ASTB - Book 3, Form 1 (NOMI-1532/2C)
ASTB - Book 1, Form 2 (NOMI-1532/2D)
ASTB - Book 2, Form 2 (NOMI-1532/2E)
ASTB - Book 3, Form 2 (NOMI-1532/2F)

c. Test Answer Sheets. U.S. Navy and Marine Corps Aviation Selection Test Data, NOMI 1532/1 (4-97).

d. Scoring Keys

MVT - MCT - ANT - SAT - Form 1 (NOMI 1532/1A)
MVT - MCT - ANT - SAT - Form 2 (NOMI 1532/1B)
NFO Positive Forms 1 and 2 (NOMI 1532/1C)
Pilot Positive Forms 1 and 2 (NOMI 1532/1D)
NFO Negative Forms 1 and 2 (NOMI 1532/1E)
Pilot Negative Forms 1 and 2 (NOMI 1532/1F)

Scoring Manual for the U.S. Navy and Marine Corps Aviation Selection Test Battery, NOMI P-5098 (1992)

6. Distribution and Custody of Test Materials

a. Distribution and Control. The Commanding Officer, Naval Operational Medicine Institute (CO, NAVOPMEDINST) is responsible for procuring, distributing, and controlling all test materials pertaining to the U.S. Navy and Marine Corps Aviation Selection Test Battery. Address requests and inquiries to: NAVOPMEDINST, Code 41, 220 Hovey Road, Pensacola, FL 32508-1047. The CO or officer in charge of activities receiving test materials is accountable for maintaining inventory and security of test materials and for assuring standardized test administration per reference (a).

b. Permanent Custody. Permanent custody of test materials may be assigned to activities whose missions require frequent administrations of these tests.

c. Temporary Custody. Where it is impractical for applicants to travel to an activity having permanent custody of test materials, temporary custody may be requested for a 30-day period. Requests for temporary custody must be made in writing from the applicant's CO. The request must address the following with respect to administering the test:

- (1) Adequate security for test materials.
- (2) Adequate testing facilities.
- (3) Qualified test administrators (command career counselor or education services officer).
- (4) Compliance with standardized testing procedures per reference (a).

d. The request must include the following information about each applicant (except when requesting test materials for the Seaman to Admiral Program):

- (1) Name.
- (2) Social Security Number (SSN).
- (3) Program to which the application is made.

e. The CO, NAVOPMEDINST is authorized to extend temporary custody for a period not to exceed 6 months. Written requests for extension must indicate the requirements for additional custody. In no case will scoring keys be provided on a temporary custody basis.

7. Test Administration. Applicants to aviation officer training programs must have attained a qualifying score on the U.S. Navy and Marine Corps Aviation Selection Test Battery before reporting for training. All reasonable effort must be made to provide administration of the subject tests to applicants from both the civilian and military communities. Positive identification of the applicant and verification of his or her SSN must be made before administering the test battery.

a. Procedures. Custodians of test materials must ensure that personnel assigned to administer the tests have a thorough understanding of the provisions of reference (a), and procedures stated therein are followed explicitly. Any irregularities must be reported immediately to the CO, NAVOPMEDINST.

b. Retesting. An applicant may retest, using the alternate form, using the following time table:

(1) The first retest of the ASTB, or any portion of the test, shall occur no earlier than 30 days following the original testing.

(2) The second and all subsequent retesting shall occur no earlier than 180 days from the last testing.

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(3) There is no limit to the number of times an applicant may retest. An applicant who has taken the MVT and MCT only to obtain an OAR score may subsequently take the SAT, ANT, BI, and AI within 180 days of taking the MVT and MCT to obtain a complete set of scores. (This is a merged test and is considered to be one test. In the case of a merge, the next legal test date is determined by the 30-day or 180-day period, as appropriate, counted from the date of the last portion taken.) Applicants who have taken the entire test and who are being retested must take the entire test battery again even though they may be satisfied with their performance on parts of it. The proper number of days must have elapsed since the date of last testing. An applicant's official score will be derived from his or her most recent legal test. To avoid possible violation of the retest policy, the CO, NAVOPMEDINST may be contacted to verify eligibility and form numbers. If unusual circumstances warrant testing before the end of the 180 days, authorization for a waiver stating all circumstances may be requested from the CO, NAVOPMEDINST.

c. Field Scoring. Recruiting activities having permanent custody of test materials may be authorized to score tests, and to inform applicants of unofficial AQR, PFAR, FOFAR, PBI, FOBI, and OAR scores. Applicants are not to be informed of raw scores or subtest scores. It must be stressed to the applicant the scores are official only after being validated by NAVOPMEDINST.

d. Forwarding Test Answer Sheets. Forward completed test answer sheets, including form number, via certified mail, within 5 working days of any test administration, to CO, NAVOPMEDINST (Code 41). An invoice and request for receipt acknowledgement must be included.

8. Test Processing and Verification. The CO, NAVOPMEDINST is responsible for processing tests, determining official scores, and verifying test results.

a. Edits. Test answer sheets are reviewed and edited for completeness and accuracy. Incomplete test answer sheets cannot be processed. Testing activities are required to provide information required for processing.

b. Scores. Test answer sheets are machine scored. Scores are maintained in a data base of official scores. Any discrepancy between field scores and official scores which affects an applicant's eligibility must be the subject of official correspondence to the activity, the area or district where the test was taken, as well as the Commander, Navy Recruiting Command, the Commandant of the Marine Corps, or Coast Guard Headquarters, as appropriate.

c. Retest Scores. Determination of retest status will be made for each applicant.

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(1) Legal Retest

(a) If at least 30 days or 180 days have elapsed since the last exposure to any of the test materials, the previous official scores for that applicant will be replaced by the current official scores. The OAR (computed from the MVT and MCT) may be combined with a subsequent administration of the ANT, SAT, BI, and AI to obtain the AQR, PFAR, FOFAR, PBI, and FOBI within 180 days of MVT or MCT testing. This would be considered a merge. Aviation applicants with more than 180 days elapsed time since taking the MVT or MCT must retake the entire test battery.

(b) After 180 days since original testing, any retesting must include the entire test battery or portion of the battery appropriate for nonaviation programs. Under warranted circumstances, waivers may be granted at the discretion of CO, NAVOPMEDINST (Code 41), 220 Hovey Road, Pensacola, FL 32508-1047.

(2) Illegal Retest. Earliest retest date will be not earlier than 30 to 180 days since last exposure to any of the test materials. If less than the required 30 to 180 days have elapsed since last exposure to the test materials, the current test answer sheet will be invalidated by CO, NAVOPMEDINST (Code 41) and the prior official score maintained. The testing activity must be notified of the illegal retest, the applicant's official scores, and the earliest retest date permissible.

(3) Cheating. Cheating will not be tolerated at any time. If cheating is suspected, a note will be attached to the test answer sheet and mailed to CO, NAVOPMEDINST.

d. Screening. Each applicant reporting for aviation officer training must have official scores which meet or exceed the standards set by the appropriate authority of the Navy, Marine Corps, or Coast Guard. Any applicant who has not attained these standards is disqualified.

e. Appeals. All appeals resulting from CO, NAVOPMEDINST decisions regarding matters relating to ASTB testing and test procedures should be made to the Chief, Bureau of Medicine and Surgery (MED-23) with an information copy to CO, NAVOPMEDINST (Code 41).

9. Qualifying Scores

a. Aviation Officer Programs. Qualifying scores must meet certain minimums which are determined with recommendations by the Chief, Bureau of Medicine and Surgery (BUMED). BUMED recommends minimum test scores of three on the AQR, PFAR, FOFAR, PBI, and FOBI for admission to naval aviator programs. However, minimum

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qualifying scores can be raised above these levels by Navy, Marine Corps, or Coast Guard directives to accommodate the needs of their service.

b. Nonaviation Officer Programs. Qualifying scores for nonaviation programs are published under separate directives by the Navy Recruiting Command or Marine Corps Headquarters as appropriate.

10. Disclosure of Test Data. Test data which identifies individual applicants will be divulged only to personnel processing the individual's application and training administrators for the purpose of selection and placement. Individuals desiring their own test results may request, by telephone or letter with SSN included, a score report from the CO, NAVOPMEDINST (Code 41). Summary and composite data may be released at the discretion of the CO, NAVOPMEDINST (Code 41), via BUMED (MED-23).

11. Test Validity. The CO, NAVOPMEDINST is responsible for maintaining a continuing assessment of validity indexes of the aviation selection test program for selection and prediction of success in aviation programs. The CO is responsible for the fielding of new experimental test items for data collection and analyses which ensures the highest possible level of predictive validity is maintained.

12. Security. Test materials are designated "For Official Use Only." Security procedures must follow reference (a).

a. CO, NAVOPMEDINST must require all test material custodians to report an inventory of test material annually.

b. When test materials become worn or otherwise unfit for use, forward, via certified mail, to CO, NAVOPMEDINST (Code 41) for destruction. Packages should be double-wrapped with the inner envelope plainly marked, "To be opened by personnel authorized to handle test materials." The cover letter must list materials being forwarded and request receipt acknowledgment.

c. Custodians of test materials must take all reasonable precautions to ensure the following:

(1) Personnel responsible for test materials are thoroughly acquainted with the need for security of these materials.

(2) Materials will be handled only by personnel designated in writing by their CO.

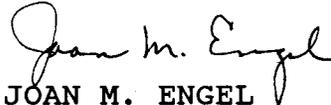
d. Access will not be assigned to personnel who may later require testing on these materials. Members being assigned

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duties involving handling test materials must take the entire test battery before assuming duties. Scores derived from this test will become their permanent scores of record.

e. If any test booklets or scoring keys are lost or compromised, the use of the affected form must be discontinued within the area for 6 months. Such loss or compromise must be reported immediately to the CO, NAVOPMEDINST (Code 41). An investigation must be directed by the CO of the custodial activity, and results of the investigation forwarded to the CO, NAVOPMEDINST.

13. Inquiries. Questions regarding matters related to the U.S. Navy and Marine Corps Aviation Selection Test Battery should be directed to CO, NAVOPMEDINST. Contact Code 41 via e-mail at the following addresses: Psychology technician in charge of testing at Code413@opmed1.med.navy.mil., with a copy to the department head at Code410@opmed1.med.navy.mil.



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Distribution:

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Available at:

<http://support1.med.navy.mil/bumed/instruct/external/external.htm>