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**AIR FORCE**



**HUMAN RESOURCES**

**ARMED SERVICES VOCATIONAL APTITUDE BATTERY  
(ASVAB): ITEM, OVERLENGTH AND  
OPERATIONAL LENGTH DEVELOPMENT  
OF FORMS 18 AND 19**

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<b>13. ABSTRACT (Maximum 200 words)</b> The Armed Services Vocational Aptitude Battery (ASVAB) is the aptitude test used by each of the armed services in making enlisted selection and classification decisions. The objective of this effort was to develop four new forms of the ASVAB for the Department of Defense (DoD) Student Testing Program (STP). These new forms are to be designated 18a, 18b, 19a, and 19b and must be statistically and content parallel to a reference test, ASVAB Form 8a. This paper documents the first two phases of the developmental process. In Phase I, experimental items paralleling the taxonomy of the reference test, Form 8a, were written and administered to Air Force recruits at Lackland Air Force Base, Texas. These experimental items were administered in an equivalent groups design with the reference test items. Item statistics from this administration were calculated and used to match experimental with reference test items in order to develop overlength forms. In Phase II, the overlength forms were administered to recruits from each of the services and again item statistics and item content were used to match experimental with reference form test items in order to create operational length forms. Trial equatings were performed to determine if scores on the new subtests correspond to each other and to the scores on like-named subtests on Form 8a. These equatings and a comparison of the content, item and test statistics between the new forms and ASVAB Forms 8a indicated that the new forms were content and statistically parallel to one another and to the reference tests.			
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