

APTICOM

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The APTICOM assessment system was designed as a screening device for use in rehabilitation, JTPA, and secondary education programs. Administration of all instruments in the system requires a fourth grade reading level and the ability to understand a multiple-choice format. It should be noted, however, that all general test instructions are administered orally and that nine out of eleven subtests in the aptitude battery do not require any reading ability. APTICOM is a dedicated computer console specifically designed for administration of a multiple aptitude test battery, vocational interest inventory, and educational skills development battery. The APTICOM Aptitude Test Battery assesses: General Learning Ability, Verbal Ability, Numerical Ability, Spatial Perception, Form Perception, Clerical Perception, Motor Coordination, Manual Dexterity, Finger Dexterity, and Eye-Hand-Foot Coordination. The Occupational Interest Inventory measures interest in the following Guide for Occupational Exploration interest areas: Artistic, Scientific, Plants and Animals, Protective, Mechanical, Industrial, Business Detail, Selling, Accommodating, Humanitarian, Leading-Influencing, and Physical Performing. The Educational Skills Development Battery measures work related math and language skills for General Education Development levels one through four as defined in the Handbook for Analyzing jobs.

The APTICOM system automatically times and scores each test while offering a manual stop override feature. The console is capable of printing assessment results, when connected to a serial interface printer, and can be downloaded to a personal computer. Multiple consoles can be networked through a master control unit for small group administration. Testing time for the aptitude battery is twenty-eight and one-quarter minutes. The interest inventory is untimed and typically requires fifteen to twenty minutes for completion. Testing time for the educational skills battery is twenty-five minutes. When practice periods are included, actual testing demands ninety minutes.

The average reliabilities of cognitive, perceptual, and motor performance factors within the aptitude battery are .86, .82, and .70 respectively. The aptitude battery has been validated against the USES General Aptitude Test Battery (GATB) and the average congruent validity coefficients within cognitive, perceptual, and motor domains are .83, .66, and .47 respectively. The average interest inventory scale validity coefficient is .79, utilizing the USES interest inventory as criterion, and the average test-retest reliability coefficient across the twelve interest area scales is .84. The educational skills development battery is validated via content analysis of test items by a panel of vocational evaluation and language specialists.