CogScreen-Aeromedical Edition (CogScreen-AE) is a computer-administered and scored cognitive-screening instrument designed to rapidly assess deficits or changes in attention, immediate- and short-term memory, visual perceptual functions, sequencing functions, logical problem solving, calculation skills, reaction time, simultaneous information processing abilities, and executive functions.

CogScreen-AE was initially designed to meet the Federal Aviation Administration's (FAA) need for an instrument that could detect subtle changes in cognitive functioning: "changes which left unnoticed may result in poor pilot judgment or slow reaction time in critical operational situations" (Engelberg, Gibbons, & Doege, 1986, p. IS89).

CogScreen-AE meets the FAA's requirement for a sensitive and specific neurocognitive test battery for use in the medical recertification evaluation of pilots with known or suspected neurological and/or psychiatric conditions. CogScreen-AE is not a test of aviation knowledge or flying skills, but rather a measure of the underlying perceptual cognitive, and information processing abilities associated with flying (Imhoff & Levine, 1986).

CogScreen-AE consists of a series of computerized cognitive tasks, each self-contained and presented with instructions and a practice segment. The subtests are listed and described below. **OVERVIEW**