

Abilitest Battery – cognitive skills assessment

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ABSTRACT

Cognitive skills are a crucial part of everyday functioning. Cognitive skills include perception, attention, language, memory, executive functions, and higher cognitive skills. With the aging of societies, there is an increasing percentage of people whose cognitive skills decline. Cognitive skills affect work performance. The appropriate diagnosis of a worker's cognitive skills reduces the risk of errors and accidents at work. The study aimed to prepare new cognitive tests for adults aged 20-60 and assess the psychometric properties of the tests. Computer tests were developed to assess psychomotor performance, attention, and working memory. People (N = 280) aged 20-60 will participate in the study. Inclusion criteria for the study were: no subjective cognitive impairment, no history of severe head injuries, psychiatric and neurological diseases. The research are conducted in April - July 2022. Cognitive tests: 1) Measurement of psychomotor performance: Reaction time, Choice Reaction Time; 2) Measurement of sustained attention:

Searching dots, Searching numbers; 3) Measurement of working memory: Remembering words, Remembering letters. To assess the validity and the reliability subjects will perform the Vienna Test System, i.e. "Reaction Test", "Signal Detection", "Corsi Block-Tapping Test", and Perception and Attention Test (TUS), Colour Trails Test (CTT), Digit Span – subtest from The Wechsler Adult Intelligence Scale. Eighty people are invited to a session after 3 months aimed to assess the consistency overtime. Due to ongoing research the detailed results from 280 people will be shown at the conference. The results of correlation analysis with the Vienna Test System will be demonstrated as well.

Keywords: attention; cognitive skills, cognitive tests, psychomotor performance, working memory