Neurocoach® Training System

NeuroCoach® Training System focuses on developing resilient, flexible, and naturally adaptive brain circuit responses. Achieved through the application of brain training exercises that support psychological resilience. The training assumption is that if key neural circuits that support resilient, adaptive behaviors are coupled with proper problem-solving skills, resilient adaptive behaviors emerge.

CogCheck® Test Battery

Test 1: Verbal Knowledge 11 Min
Test 2: Explicit Learning - 6 min
Test 3: Spatial Relations - 9 Min
Test 4: Abstract Reasoning - 12 Min
Test 5: Symbol Matching - 3 Min
Test 6: Auditory Short-Term Memory – 3 min
Test 7: Auditory Working Memory – 3
Test 8: Visual Short-Term Memory– 5 min
Test 9: Visual Working Memory- 5
Test 10: Auditory Divided Memory – 6 min
Test 11: Information Recall – 4 Min
Test 12: Attention Error Response – 5 Min
Test 13: Attention Control – 10 Min
Test 14: Cognitive Fatigue – 15 min

CogCheck by NTL Group

Battery of 14 User Selectable Standardized tests
Each test takes appx 3-5 mins with a few up to 15 mins

Age Normed Performace Scores

1. General Cognitive Ability
2. Specific Domain Ability
3. Alertness
4. Vigilance
5. Task Motivation
6. Task Engagement
7. Cognitive Load
8. Cognitive Fatigue
9. Attention Accuracy
10. Inhibitory Processing Speed
11. Inhibitory Control Accuracy
12. Task Error Response

Assessment Domains

CogCheck
Produces Quantifiable
Cognitive Performance Scores

- General Abilities 3-12 Mins
- Global Awareness 5-10 Mins
- Processing Speed 3-15 Mins
- Executive Reasoning 3-12 Mins
- Learning 5-20 Mins
- Memory 5-25 Mins
- Attention Control 3-12 Mins
- Mood Regulation 3-12 Mins

Analysis

CogCheck
Creates Cognitive Optimization
Program to improve
Current Performance scores

Trains

CogCheck
Cognitive Optimization Program
Designed to improve
Cognitive Performance

- Fitness
- Attention Builder
- Brain Processing Speed
- Better Thinker
- Mind Stamp
- Mindfulness & Resiliency
- Mood Regulator
- Active Listener

Results

CogCheck
Yields Insights &
increases Natural
Abilities

- Global Workspace Capacity
- General Cognitive Efficiency
- Purposeful Thinking Ability
- Verbal Base Knowledge

- Motor Reaction Speed
- Visual Processing Speed
- Auditory Processing Speed
- Brain Speed

- Skill Level Monitoring
- Associative Learning
- Learning Speed
- Learning Recall

- Focus/Concentration
- Attention Accuracy
- Inhibitory Processing Speed
- Inhibitory Control Accuracy

- Conscious Awareness
- Complexity Capacity
- Expanded Perceptual Viewing
- Quicker Decisions

- Decision Speed
- Complexity Improvement
- Spatial Reasoning
- Abstract Reasoning

- Short-Term Memory
- Working Memory
- Memory Storage
- Memory Recall

- In the Zone
- Relaxation
- Revitalization
- Mood adjustment

The NeuroCoach® program

- Uses Restorative Cognitive Rehabilitation Training Methods (rCRT)
- Incorporates a Brain Computer Interface (BCI)
- Provide neural network performance integrity metrics (nPIMs) derived from brain responses
- User selectable set of activities specific to the individual needs
- The BCI interface informs the trainer, the user, and rCRT activity in real time, the current neural network performance integrity status based on the user's present nPIMs state
- The nPIMs adjusts the difficulty level for each training activity based on in-the-moment brain performance metrics