Società Italiana di Neurofeedback e qEEG

3-Day Quantitative EEG (QEEG) Workshop

NEUROFEEDBACK ADVANCE
Mestre (Venezia)

5, 6 e 7 November 2021
36-Hour

This workshop aims to train clinicians in the knowledge of the possibilities offered by the qeeg. It is important that the path follows international certification standards.

The International QEEG Certification Board (IQCB) was established to certify the competence of individuals in obtaining and interpreting a Quantitative Electro-encephalograph (QEEG).
Certification candidates must:

1) complete a 36-hour IQCB-accredited, didactic training program including practical skills training for EEG recording, artifacting, quantitative analysis and interpretation. The course must adhere to the following Blueprint (IQCB, 2020):

I. Recording & Editing raw EEG and artifact detection (2 hours)
II. Basic Neurophysiology & Neuroanatomy; (4 hours)
III. Medication/Drug effects (2 hours)
IV. Database Analysis (4.5 hours)
V. Clinical and Cognitive Aspects (6.5 hours)
VI. Montages & Spectral and Topographic Aspects of the EEG (3 hours)
VII. QEEG Analysis & Neurofeedback Application; (6 hours)
VIII. Ethical & Professional Conduct (2 hours)
IX. Practicum, including artifact detection (6 hours)

PROGRAM

The workshop will be attended in Venice/Mestre with the opportunity for the completion of 36 hours recorded material (webinars) that the participant will receive at the beginning of the course.

Three important teachers and clinicians will be guests of this advanced course of Neurofeedback and QEEG: Cynthya Kerson, Jay Gunkelman and Antonio Martins Mourao.

Day 1 – November 5 with Cynthia Kerson

9:00-13:00 **Practicum, including artifact detection (4 hours)**

Client/Patient Orientation.

Intake and Assessment.

QEEG Software/hardware Application.

14:00-16:00 **Practicum, including artifact detection (2 hours)**

Recording, Artifacting, Basic Analysis, Recording demonstration.

Hygiene and Aseptic Techniques.

16:00-18:00 **Recording & Editing raw EEG and artifact detection (2 hours)**

IFCN Guidelines, Impedance, Electricity, Filters and Artifacts.

PCA and ICA.

Recording, editing and artifacting with Exemple of Case Study.

Day 2 – November 6 with Jay Gunkelman

9:00-13:00 **QEEG Analysis & Neurofeedback Application; (4 hours)**

Client background and presentation.

Recording, artefacting and analysis (Spectra and LORETA).

14:00-16:00 **QEEG Analysis & Neurofeedback Application; (2 hours)**

From Assessment to Protocol: Case Presentations

16:30-18:00 “Vigilance modeling and the phenotype model”

Day 3 – November 7 with Antonio Martin Mourao

9:00-11.00 **Database Analysis (2 hours)**

Inclusion and Exclusion Criteria,Exemple of Qeeg database.

Introduction to evoked potentials (ERPs) and HBI Human Brain Indices Database.

11:00-18:30 **Clinical and Cognitive Aspects (6 hours)**

Developmental changes in the EEG.

Concepts for research in QEEG.

Measures for QEEG interpretationfrom theory to Application: amplitude, magnitude, absolute power and relative power, power ratio, coherence and comodulation, phase, power symmetry, LORETA.

Examples of several types of QEEG report.

QEEG and ADHD, Epilepsies,TBI, Autism, Addiction, Anxiety, Depression and Dementias.

RECORDED WEBINARS

Database Analysis

Montages & Spectral and Topographic Aspects of the EEG

Clinical and Cognitive Aspects

Medication/Drug effects

Ethical & Professional Conduct

Basic Neurophysiology & Neuroanatomy;