QEEG Certification Board

Blueprint for QEEG Certification

The purpose of the Board is to certify the competence of individuals in obtaining and/or interpreting a QEEG. The applicant should do the following (these steps can be taken out of order):

Step 1 – Contact a diplomate or diplomates of the Board to arrange for him/her to review 5 QEEGs and a summary of each written by the applicant. The diplomate reviews the 5 QEEGs and summaries to determine that they are technically adequate and provides confirmation and referral of the candidate to the QEEG Board.

Step 2 – Attend an accredited didactic course (see below).

Step 3—Take the examination. With a score of 70 or above applicant can be certified as QEEG/Technologist. With a score of 80 or above the applicant can be certified as QEEG/Diplomate.

The exam will cover the following areas (percent of questions):

1. Editing raw EEG and artifacts; (10%)
   a. Physiologic
   b. Extra-physiologic
   c. Movements in the environment
2. Drug Effects; (10%)
   a. Understand the effects of various drugs on the EEG/QEEG data.
3. Database Analysis; (25%)
   a. Know the best subject inclusion and exclusion criteria for building a database
   b. Understand fundamental statistical consideration within databases
   c. Have knowledge about t-tests, alpha and P levels, correlational relationships
   Understand z-score measures
4. Clinical and Cognitive Aspects; (30%)
   a. Understand developmental changes in the EEG
   b. Understand the origins of the EEG
   c. Know what EEG signatures should be referred out to other professionals
   d. Be knowledgeable about Brodmann area functions and network connections
   e. Have an understanding of LORETA interpretation and training
   f. Be knowledgeable about general cognitive and clinical changes that take effect after neurofeedback training based upon publications.
   g. Understand how clinical presentation may effect the EEG.
5. Montages and Spectral and Topographic Aspects of the EEG. (25%)
   a. Have a working knowledge of the montages, transforms and power displays along with the specific perspectives they can provide a reader of QEEG output.
   b. Understand what defines the various montages and the circumstances of their use.
   c. Understand sources in the brain from which various frequency bands normally emanate.
   d. Understand phase and coherence, how they relate and what they can mean in the interpretation of the QEEG.

Accredited coursework will adhere to the following blueprint in a 24-hour course. No more than 8 hours can be distance learning.

1. Editing raw EEG and artifacts; 2 hrs
2. Drug Effects; 2 Hrs
3. Database Analysis; 4.5 hrs
4. Clinical and Cognitive Aspects; 6.5 hrs
5. Montages and Spectral and Topographic Aspects of the EEG; 3 hrs
6. Practicum, including artifact detection: 6 hrs

Approved by the QEEG Certification Board October 21, 2013