



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 (approximate percent of questions):

1. Editing raw EEG and artifacts; (~10%)
 - a. Physiologic
 - b. Extraa 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 ta tests, alpha and P levels, correlational relationships
Understand za score measures
4. Clinical and Cognitive Aspects; (~35%)
 - 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. (~20%)
 - 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