

# MSMH QEEG Didactic Course to meet QEEGCB Requirements

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## INFORMATION FOR CANDIDATES

### QEEG Blueprint of Knowledge

As of June 2018, the [QEEG Certification Board](#) (IQCB) accredited coursework, toward QEEG Certification, must adhere to the following blueprint in a **36-hour course**.

1. Editing raw EEG and artifacts (2 hours, 10%)
  - a. Physiologic;
  - b. Extra-physiologic;
  - c. Movements in the environment
2. Drug Effects; (2 hours, 10%)
  - a. Understand the effects of various drugs on the EEG/QEEG data.
3. Database Analysis; (4.5 hours, 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; (6.5 hours, 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 effected by neurofeedback training.
  - g. Understand how clinical presentation may affect the EEG.
5. Montages and Spectral and Topographic Aspects of the EEG. (3 hours, 25%)
  - a. Have a working knowledge of the montages, transforms and power displays 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.

***N.B.: Content from modules 1-5 above is subject to examination by the Board for those seeking Certification.***  
*(The percent of questions, to be examined from each module, is indicated in the brackets above.)*

**To complete the full 36-hour didactic course, candidates must also complete the following modules:**

6. Basic Neurophysiology & Neuroanatomy; (4 hours)
7. QEEG Analysis & Neurofeedback Application; (6 hours)
8. Ethical & Professional Conduct (2 hours)
9. Practicum, including artifact detection (6 hours)

**Mind, Science & My Health (MSMH)** has developed flexible training options toward completion of Quantitative Electroencephalography (QEEG) Didactic Training which is required for those seek preparation toward IQCB\* Certification in QEEG.

*\*The International QEEG Certification Board ([IQCB](#)) was established to certify the competence of individuals in obtaining and interpreting a Quantitative Electroencephalograph (QEEG). In addition to a minimum of 10 hours of mentoring and passing the IQCB examination in QEEG, candidates must complete a 36-hour QEEG Didactic Training course.*

#### **About the Presenter**



**Michelle Aniftos** is a Clinical Psychologist, Certified in Neurofeedback (BCIA) and a Diplomate of the QEEG Board International (IQCB). She is the founder, Director and Senior Clinician of Mylne Street Mental Health in Toowoomba, Queensland, where she serves a diverse clientele of children and adults with mental health concerns. Mind, Science and My Health (MSMH) is the education and training arm of Michelle's private practice. Michelle is accredited by the Australian Health Practitioner Regulation Agency as a Supervisor of Provisional, Registered and Clinical Psychologists and is an approved mentor for Neurofeedback and QEEG certification candidates. Michelle is past Convener of the Australian Neurofeedback & Psychology Interest Group; current President and Fellow of the Applied Neuroscience Society of Australasia; and Chair of the Biofeedback Certification International Alliance - Australia.

#### **MSMH QEEG Didactic Certificate Course**

*(requires didactic by distance education plus a 2-day or 3-day Practicum)*

This didactic program requires that the following core modules\* are studied independently in advance of the practicum; and that each of these modules will include self-guided reading, assessment items and online webinars and tutorial sessions with the QEEGD Mentor. Following completion of this course (and access to technology required to conduct assessments), you will be able to independently record QEEG and ERP data to send for analysis or complete your own analyses under supervision by a QEEG-Diplomate and mentor.

QEEG Certification requires completion of core Modules of didactic education. Each of the modules below include self-guided reading, review tasks and online webinars and tutorial sessions:

1. Ethics & Professional Conduct (2hrs self-guided plus 1hr tutorial)
2. Basic Neurophysiology & Neuroanatomy (4hrs self-guided plus 1hr tutorial)
3. Clinical and Cognitive Aspects (6hrs self-guided plus 2 x 1hr tutorials)
4. Editing raw EEG and artifacts (2hrs self-guided plus 1hr tutorial)
5. Montages, Spectral and Topographic Aspects of the EEG (3hrs self-guided plus 1hr tutorial)
6. Drug Effects (2hrs self-guided plus 1hr tutorial)
7. Database Analysis (4hrs self-guided plus 1hr tutorial)

The above package of distance education modules will be offered between 27<sup>th</sup> January and 17<sup>th</sup> April 2020 as a 12-week online course. A maximum of 12 places will be available. Pre-reading materials will be available to registered participants from the 18<sup>th</sup> November (closing date for registrations).

In order to attain the MSMH QEEG Didactic Course Certificate, participants must also complete a QEEG practicum to cover modules:

8. Practicum, recording EEG & ERPs, artifacting, montages & displaying the data (6 hours)
9. QEEG Analysis & Neurofeedback Application (6 hours)

These practical modules will be covered via Day 2 and Day 3 of the following workshop.

Day 1 is an optional face-to-face delivery of modules 2 and 5 from the core modules.

Delegates who want to maximise their hands-on experience may elect to complete the 3-day workshop (*i.e.*, Modules 2 & 5 may be accessed via the online/distance learning model OR completed on-site during Workshop Day 1. You may elect to complete Module 2 & 5 in both online AND workshop formats to advance your learning).

**Course fees apply: \$1850 + GST** (7 distance education modules plus Day 2 & Day 3 practicum modules);  
or **\$2100 + GST** if electing to complete the Distance plus 3-day practicum option.

**2 or 3-Day QEEG Practicum** (includes recording ERPs) – 3<sup>rd</sup>, 4<sup>th</sup> & 5<sup>th</sup> April 2020,  
Venue to be advised but will be based at the Gold Coast, Queensland, Australia.

***(Optional) Day One, 03/04/20***

8.30 -11am: **Welcome**; Basic Neuroanatomy & Neurophysiology for QEEG

11.30am -1.30pm: Basic Neuroanatomy & Neurophysiology for QEEG

2.15 – 4.15pm: Practicum, recording & displaying EEG – Montages, Spectral & Topographies

4.30 – 6.30pm: Practicum, recording & displaying EEG – Montages, Spectral & Topographies

***(Compulsory) Day Two, 04/04/20***

8.30 -11am: Review QEEG Core Modules

11.30am -1.30pm: Practicum, recording EEG & ERPs (winEEG & Studio Software)

2.15 – 4.15pm: Practicum, artifacting procedures, montages

4.30 – 6.30pm: Practicum, displaying EEG spectra and topographies

***(Compulsory) Day Three, 05/04/20***

9am - 11am: Recording EEG (resting and task-performance states)

11.30am -1.30pm: QEEG Analysis & Neurofeedback Applications Part 1

2.15 – 4.15pm: QEEG Analysis & Neurofeedback Applications Part 2

4.30pm – 6.30pm: QEEG Analysis & Neurofeedback Applications Part 3

**N.B.:** Having completed an accredited 36-hour QEEG Didactic Course, delegates pursuing [IQCB QEEG Certification](#) need to submit 5 case presentations to an approved QEEG-D Mentor, a total of 10 contact hours in mentoring, and successfully complete the Board Examination to attain QEEG Certification.

# REGISTRATION FORM

## 1. Personal Details

Surname:		Given names:	
Postal address:			
State:	Postcode:	Country: <small>(if not Australia)</small>	
Home Phone:	Work Phone:		Mobile:
Email:			Fax:

## 2. Academic Qualifications

Please indicate your profession and/or demonstrate suitability to participate in this post-graduate professional training in applied neuroscience.

I have completed higher education studies in: \_\_\_\_\_

I have Professional Registration in the field of: \_\_\_\_\_

I have attached a copy of my current licence/registration to practice as a healthcare professional.

## 3. Payment Options

Please register me \_\_\_\_\_ (*delegate First and LAST name*) as a participant in the MSMH QEEG Didactic Course.

I understand that the course is being offered between 27<sup>th</sup> January and 17<sup>th</sup> April 2020 as a 12-week online/distance education program including self-guided learning materials, tutorials via webinar, and a compulsory practicum of either 2 or 3 days training.

I elect to complete the following registration option:

**MSMH QEEG Didactic Course - \$1850 + GST** (7 distance modules plus Day 2 & Day 3 practicum);

or

**MSMH QEEG Didactic Course \$2100 + GST** (Distance education modules plus 3-day practicum option).

Submit your Registration Form to Mind Science and My Health, [michelle@msmh.com.au](mailto:michelle@msmh.com.au)

Your Tax Invoice will be dispatched following receipt of your registration form.

**Registration Closing:** 18<sup>th</sup> November (course pre-reading and instructions distributed from that date).