



The Developer Tools Level 1 Online Course

is a 6-hour online workshop. The online course is the equivalent of a 1-day workshop with a total of 6-hours of instruction given over the internet. The six hours are divided into four 1.5-hour lessons given twice a week for two weeks. All courses are limited to a maximum of 3 participants to ensure individual attention using the BioGraph Infiniti Screen, and Script Editors. This workshop is targeted at power users of the BioGraph Infiniti environment. You will receive an overview on the key concepts behind the Screen and Script editors, opening the door to further learning in this exceptionally powerful development environment.

Editing Existing and Building New Scripts

Script Editor, Script Design: Key concepts, Script Building Process, Adding a Script, Script Definition, Activity Definition, Defining a Test Activity, Step Type Definition, Step Definition, Step Statistical Settings,

Phase, Testing a Script, Test Script Simulator, Function Buttons, Progress and Status Bars.

Editing Existing and Building New Display Screens

Screen Background, Using Different Instruments; Growing Shape, Scale, Correlation, Synchronized Event Average, Multiple Colour Selection Dialog Box, Counter, Target Counter, Percentage of Time Condition is True Counter, Numeric, Spectrum (2D), Frequency Settings, Spectrum (3D), AVI Animation, Creating your own AVIs document, Palette Animation, Video, Link, Interface Switch, MIDI Splitter, Child Bar Graph, Settings Instrument, Percentage Instrument; Setting Sound Feedback, Audio File Selection, Creating Templates with the Template Editor, Deleting Templates.

Participants Will Learn How To:

- *Explain key aspects of psychophysiological instrumentation recording such as artifact, amplitude, bandpass, and frequency response curve.*
- *Demonstrate a knowledge of aspects of signal processing such as time constant, impedance, and signal-to-noise ratio.*
- *Build and edit channel sets and display screens that use peak-to-peak voltage, root mean square voltage, and power spectrum.*
- *Identify and briefly describe characteristic signals and signal processing for feedback displays.*

SCREEN EDITOR:**See Your Ideas Come Alive On Screen:**

The Screen Editor is a visual tool that enables you to build any number of new display screens for biofeedback and data acquisition purposes. With a toolbox of over 20 instruments to select from, creating a single or multi-monitor display is as easy as clicking on an instrument and placing it on the screen. The toolbox includes standard graphs, event counters, a correlation graph, multimedia tools, and new logic instruments that will allow you to create sophisticated feedback environments with selective inhibiting and immediate or discrete rewarding capabilities.

SCRIPT EDITOR:**Build your own assessment and training scripts:**

The Script Editor is a powerful programming tool for creating session scripts (also known as protocols), which can automatically load display screens, and give instructions, play media events and pause recording. Time-based or event-based script sessions can save you from having to perform many repetitive and tedious tasks. A script is defined as a sequence of activities and can be used for performing standardized assessments and breaking down data into statistically significant segments. Sessions recorded from scripts can be trended in the BioGraph Infiniti software. The Script Editor offers a Wizard Mode, which guides beginner users through the sequence of steps involved in creating simple or complex session scripts.

CONTINUING EDUCATION ACCREDITATION:

Thought Technology has requested approval of this course for accreditation of 6 Continuing Education Hours through the Biofeedback Certification Institute of America (BCIA) for BCIA recertification. These 6 hours are divided into 3 hours of General Biofeedback; Psychophysiological Recording 1 hour, SEMG Applications 1 hour, EEG Applications 1 hour, and 3 hours of EEG Biofeedback; Orientation to EEG Biofeedback 1 hours, and Instrumentation and Electronics 2 hours.

COURSE PREREQUISITES:

This course is intended for licensed health professionals and participants are encouraged to seek BCIA accreditation if they are not already accredited. Participants at this course must have completed the Introduction Online course and the Screen Editor Lite Online course or attended the first two 1-day workshops.

PRESENTERS:

The following is a list of the presenters who will instruct this course and will guide you to a better understanding of your instrumentation:

Moreau, Geneviève Before pursuing her studies in psychology, Geneviève Moreau was an occupational therapist. She then trained in neurofeedback at the ADD Center near Toronto as part of a clinical internship with Lynda Thompson, a leader in the field of neurofeedback development in Canada. Her doctoral research seeks to document how neurofeedback can

optimize one's performance during IQ evaluations, and examines the ways in which one may diminish the need for stimulants such as Ritalin when treating kids with various attention deficit disorders.

Schwartz, Mark, BSc. Hons, MBA. Mark Schwartz is a project manager with the Biofeedback Foundation of Europe responsible for research and education projects linking European researchers and clinicians with their counterparts in North America. He has over 10 years of experience in biofeedback projects and for the last 3 years has taught workshops in Europe and North America on the use of biofeedback instrumentation. He recently became involved in online education. His BSc. Hons is in Psychology from Manchester University, England. His MBA is from Laval University in Quebec.

Tegan, Elizabeth, M.S., R.N., C.S. is a Clinical Nurse Specialist in private practice. She is a psychotherapist and uses neurofeedback and peripheral biofeedback as a part of an holistic approach to mental health issues. She has used neurofeedback extensively for 5 years and is pursuing BCIA-EEG certification. The population she works with are primarily adults with mood disorders, anxiety, stress related physical problems and trauma survivors.

Tian, Shawn. B.A. MBA. Shawn Tian has 3 years of experience in technical sales to Asian markets, software development, technical support and teaching with Thought Technology. Shawn has taught workshops in South Africa, Australia, the United States, China, Hong Kong, and Thailand. He also instructed workshops with Steve Sideroff, Ph.D, in Indonesia. Shawn is also involved in the development of clinical software suites with Sue Wilson, Ph.D, Howard Glazer, Ph.D., Stu Donaldson, MD, and Don Moss, Ph.D. and others. He has an MBA from Western University in Ontario, Canada and a Bachelors Degree from Shanghai Fudan University in China.

White, Pam, LPC, BCIA is a licensed Professional Counsellor. She Earned a Masters degree in Counselling as well as an undergraduate degree in Rehabilitation Counselling. She is BCIA certified and has integrated biofeedback into her clinical practice since 1992. Previously, Pam White served as clinical director of biofeedback; now, she works in a private practice, incorporating primarily peripheral biofeedback with counselling strategies, while also teaching and supervising clinicians.