

# Cognitive Rehabilitation: The Quadraphonic Approach

## course description

*Dr. Abreu designed this interactive cognitive rehabilitation course to provide information for use across the continuum of recovery from coma to community re-entry. She will provide an approach that employs a team concept to coordinate the resources of therapists, clients and their family groups for the evaluation and treatment of stroke, traumatic brain injury, brain tumors, cerebral palsy and other neurologic conditions. Dr. Abreu will present, "The Quadraphonic Approach" a program that she designed and refined over many years. The Quadraphonic Approach employs both a medical (micro) and social (macro) perspective for evaluation and treatment through the continuum of recovery. The micro perspective refers to the management of performance components or sub-skills. The macro perspective refers to the analysis of functional performance or real life occupations.*

The Quadraphonic Approach is based on the assumptions that: a) integration of cognitive-perceptual and postural control analysis is crucial for cognitive rehabilitation, b) continuous analysis of occupational performance from both a micro and macro perspective is required for effective rehabilitation, and c) the narrative process of storytelling and story making is integral to the rehab process. Guidelines and protocols for both quantitative and qualitative evaluation and treatment of cognitive-perceptual and postural control dysfunction will be provided based on a seven-point functional evaluation scale.

The Quadraphonic Approach is a frame of reference that incorporates four theories: information processing, teaching/learning, neurodevelopmental and biomechanical. The performance components will include attention, visual perception, memory, problem solving, motor planning, initiation and safety. The Quadraphonic Approach also provides guidelines for interaction among the therapist/teacher, client/learner and the environment. In addition, an interview protocol is provided for awareness, and four evaluation tests are provided for each of the attention, visual perception, memory, problem solving, motor planning and initiation and safety components. Treatment strategies for remediation and compensation are also presented. For the macro analysis, the Quadraphonic Approach employs a functional analysis based on four personal factors affecting the client's overall independence status. These four factors are disability, health, life-stage and lifestyle. This functional analysis is used to guide the interaction of the client's will, goals, opportunities for action and capacity for action.

Each participant will receive an extensive series of handouts, which they will be able to use in clinical and educational settings. The handouts will combine both quantitative and qualitative methods for evaluation and treatment. Each individual handout may serve as the basis for an individualized in-service training program.

## REGISTRATION FORM

**Cognitive Rehabilitation: The Quadraphonic Approach**

**Beatriz C. Abreu, Ph.D, OTR, FAOTA**

**October 21st & 22nd, 2010**

**Holiday Inn Peterborough Waterfront  
150 George Street, Peterborough, Ontario**

PLEASE PRINT CLEARLY

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Profession: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ Prov.: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Confirmation of registration will be sent via email

### Course Fee:

**If paid prior to April 30, 2010 \$499 + 24.95 GST = \$523.95**

**If paid after May 1, 2010 \$499 + 64.87 HST = \$563.87**

(Includes course material, continental breakfasts & breaks.

Lunch included on Day 1 only.)

***Note:** No refunds after September 24, 2010. Substitutions allowed with written notice. Written requests for refunds received before September 24, 2010 will be subject to a \$50 processing fee.*

### Accommodations:

A block of rooms will be held at the Holiday Inn Peterborough Waterfront until September 21, 2010. Contact reservations at 1-866-258-5181 and mention affiliation with MindWorks to receive discount rate.

### Payment Method:

Cheque (payable to MindWorks)  MasterCard  Visa

Credit Card #: \_\_\_\_\_

Expiry Date: \_\_\_\_\_

Name as it appears on the card: \_\_\_\_\_

**Payment must accompany registration form  
NO POST DATED CHEQUES PLEASE**

*Space is limited, enrollment is on a first come, first serve basis.*

For further information please contact:



312 Rubidge Street, Peterborough, Ontario K9J 3P4

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Toll Free: 1-800-559-8323

Email: admin@mindworksgroup.ca • www.mindworksgroup.ca



## Cognitive Rehabilitation: The Quadraphonic Approach

**BEATRIZ C. ABREU**

Ph.D., OTR, FAOTA

**OCTOBER  
21ST & 22ND, 2010**

Holiday Inn Peterborough Waterfront  
Peterborough, Ontario

## who should attend

- Occupational Therapists
- Occupational Therapy Assistants
- Speech Language Pathologists
- Physiotherapists

## course objectives

Upon completion of this course, participants will be able to:

- Describe the principles, theories and application of the cognitive rehabilitation program called The Quadraphonic Approach
- Integrate movement and cognitive skills in evaluation and treatment for persons with acquired brain injury
- Administer tests and treatment for attention, visual perception, memory, problem solving, motor planning, initiation and safety and grade the tests on a seven-point scale
- Perform functional analysis and synthesis for evaluation and treatment in personal management, shopping, cooking, individual meal preparation, mobility, and money management

## faculty

**Beatriz C. Abreu, Ph.D., OTR, FAOTA** is an educator, researcher and master clinician with over forty-two years of experience and widely recognized for her expertise on cognitive rehabilitation. She is an independent consultant and was the Director of Occupational Therapy at the Transitional Learning Center in Galveston, a center specializing in services for persons with brain injury. She is a Clinical Professor at the University of Texas Medical Branch at Galveston where she assisted in the development of an interdisciplinary Ph.D. in Rehabilitation Science. She has mentored doctoral and postdoctoral occupational therapists, physical therapists, engineers, and physiologists. Dr. Abreu was formerly associated with the USC-University Hospital and the University of Southern California, New York University and Downstate Brooklyn New York State University. Dr. Abreu has presented numerous workshops and conferences throughout the United States, Canada, Europe, Asia and South America. She has received multiple awards nationally and internationally for her publications, direct care, research and educational endeavors.

## seminar agenda

### THURSDAY, OCTOBER 21, 2010

- 7:00 am Registration and Continental Breakfast**
- 8:00 am Introduction to Cognitive Disabilities and Neurobehavioral Factors**
- Stroke, Head Trauma, Learning Disabilities, Cerebral Palsy, Dementia and others
  - Brain lesions, behavioral patterns
  - Relationship between cognitive disabilities and neurobehavioral responses
- 9:30 Cognitive Rehabilitation: General Evaluation Systems using the QA**
- Standardized & non-standardized; Qualitative & Quantitative
- 10:30 Cognitive Rehabilitation: General treatment and other Intervention Systems using the QA**
- Training and Compensation Strategies
- 12:00 pm Lunch (provided)**
- 1:00 Attention and Awareness**
- Overview and training strategies
- 3:00 Visual Neglect**
- Overview and training strategies
- 5:00 End of Day 1**

*A 15 minute break will be provided in the a.m. and p.m. on Day 1.*

### FRIDAY, OCTOBER 22, 2010

- 7:00 am Continental Breakfast**
- 8:00 am Integrating Motor Performance and Cognition**
- The trunk, shoulder and hand
- 10:00 Community Integration Training**
- Personal Management: Showering and Bathing
  - Meal Planning & Meal Preparation Training: Institutional, virtual and personal
  - Money Management: Cash & Bank
  - Problem Solving: Table Games, Groups and Dyads
- 11:00 Cognitive Rehabilitation: Therapists as facilitators of growth and positive change**
- Meta-cognition Training and Positive Psychology Coaching
- 12:00 pm End of Course**

*A 15 minute break will be provided in the a.m. on Day 2.*