Learning Objectives

Upon completion of this course, the online participants will:

Module 1: Brain Changes
• Recognize neuroplasticity as a potential target for therapist to utilize in developing treatment for persistent pain
• Outline the events showing that pain is an output of the brain
• Correlate Melzack’s Neuromatrix when developing therapeutic goals

Module 2: Pain Mechanisms
• Critique why pain is a complex process.
• Compare the pain mechanisms with clinical symptoms
• Identify the ways to differentiate allodynia from hyperalgesia

Module 3: Bio-Psycho-Social Approach
• Explain the Bio-psycho-social approach involved in patient care
• Compare the bio-psycho–social approach with the biological medical approach

Module 4: Concepts of Graded Motor Imagery
• Identify the practical application of Graded Motor Imagery for various neurovascular and musculoskeletal injuries
• Integrate the use of laterality or right/left identification, imagery, and mirror therapy into plan for retraining the brain
• Verify the progression of moving from laterality to imagery

Module 5: Clinical Evidence
• Connect the clinical evidence of utilization of Graded Motor Imagery in retraining the brain
• Recognize the clinical patterns of central sensitization
• Analyze why Graded Motor Imagery is a therapeutic model to use for treating Phantom Limb Pain.

Module 6: Clinical Application for Neuro and Ortho Patients
• Describe why therapeutic neuroscience education is necessary in understanding a patient’s diagnosis
• Compare top down education to bottom up education in achieving therapeutic goals