The Certification Standards™ Course

This 16-day course is for therapists who want the distinction of being certified neurorehabilitation professionals (alternate 12-day format available without patients).

Course Description

As physical therapy and occupational therapy evolve into doctoring professions, the continuing medical education should likewise be expected to meet a higher standard. This course teaches therapists how to think critically, deepen their knowledge, and perform skillfully as a professional. Course content is informed by best evidence and best practice with a focus on clinical application. This is accomplished by establishing a community environment of situated learning with patient attended clinical mentoring.

The NeuroPro standards of a neurorehabilitation professional include a thorough examination and differential diagnosis, the design and initiation of treatment, modulation and treatment progression, and the foundational sciences upon which these are based. All standards are centered on patient life roles and salient activities.

Participants completing this course of study will leave prepared with the content knowledge, decision making skills, and a transformed practice for meeting the clinical demands of a neurorehabilitation professional.

Ideal for : **Physical Therapists & Occupational Therapists**

Upon Completion
You will know how to:

- Demonstrate deep content knowledge in anatomy and kinesiology beyond the academic preparation for clinical practice

- Use a kinesioanalysis approach in performing an effective examination to determine diagnoses and syndromes within the context of salient activities of living

- Design and deliver an effective patient centered treatment plan based on the diagnoses and syndromes identified

- Translate knowledge of motor learning, motor control, and neural plasticity into clinical decisions for patient intervention

- Alter the course of treatment based on patient response, ambulation, and arm requirements for intended salient outcomes

- Measure and document meaningful change in task behavior of the patient-stated goals

- Transcend all traditional conventional boundaries, and approach each patient by addressing the entire human movement system

NeuroPro Standards™ Session 1:

Examination and Diagnosis Based on Science and Salience

Session Description

Examination and diagnosis of the patient is the focus of Standard One. A targeted intervention leading to a patient specific outcome is not possible without accurate diagnosis. Salience, one of many neural plasticity principles explored in the Standards course, will form the basis for examining the Human Movement System.The process of differential diagnosis will push the participant to recall and enhance their knowledge of anatomy and kinesiology. The NeuroPro transdisciplinary approach to a whole body examination will lead to a set of diagnoses. Only then can a meaningful course of therapy occur.

Ideal for:

- Physical Therapists

- Occupational Therapists

Upon Completion

You will know how to:

- Expand content knowledge in anatomy and kinesiology

- Learn the NeuroPro Model of Examination

- Utilize the NeuroPro Core Set of Movements to identify key components of movement embedded in salient activities

- Develop a differential diagnosis based on signs and symptoms

- Perform salient diagnostic tests to develop a diagnosis or a set of diagnoses

EXAMINE AND DIAGNOSE

NeuroPro Standards™ Session 2:

Design and Initiation of Treatment

Session Description

With diagnoses determined by using the NeuroPro Examination method, attention is now turned to effective interventions. Movement diagnoses must be worked through by addressing them directly, rather than working around them. The NeuroPro Model of Intervention is designed to do that using a unique triangulated approach to reach the salient outcome chosen by the patient. Knowledge expansion and critical thinking are integral to using the model instead of relying on routine, imitation, or substitution.

Ideal for:

- Physical Therapists

- Occupational Therapists

Upon Completion

You will know how to:

- Understand and use the NeuroPro Model of Intervention to design, initiate and modify treatments

- Recognize and understand each phase of the gait cycle for use as the gold standard in gait analysis and intervention

- Develop deeper knowledge about the connections between the shoulder, elbow, and hand and use that knowledge to develop support responses in the arm

- Match movement diagnoses with appropriate intervention strategies

- Manipulate the features of the Intervention Model to effectively reduce the impact of movement impairments

DESIGN A PLAN AND INITIATE TREATMENT

NeuroPro Standards™ Session 3:

Treatment Variables and Modulation

Session Description

Treatment is not a list of things you do in therapy. It is the continuous process of presenting new ideas and challenges that address movement system diagnoses. In Standard Three, you will learn to create change and challenge within salient activities for your interventions, instead of picking random "exercises" to repeat. Using a salient activity combined with your creativity, will make treatment sessions fun, engaging, and effective.

Ideal for:

- Physical Therapists

- Occupational Therapists

Upon Completion

You will know how to:

- Understand how to use salience as the stimulus for creativity

- Experience a motor learning activity and extract the relevant lessons for treatment modulation

- Develop an understanding of many gait functions to increase options to meet the demands of both activity and diagnosis

- Recognize the difference between an ineffective treatment strategy and a treatment strategy that needs regulation

- Generate progressions in treatment by recognizing which treatment elements are succeeding and adjust to focus on diagnoses still interfering with the activity

**MODULATE AND
VARY TREATMENT**

NeuroPro Standards™ Session 4:

Progression of Action and Refining Movement

Session Description

Neurological recovery is a process and therapists have limited time to make the maximal impact. At each patient contact, it is important to continue to identify the path forward toward the patient's goal. In Standard Four, the emphasis will be on resolving diagnoses, reckoning with the most intransigent ones, and recognizing the interaction of movement diagnoses. As some diagnoses are resolved, other diagnoses may emerge and become more compelling for attention. Choices regarding function of the arm and hand during reach will be stressed. Continued development of in-depth clinical reasoning leads to the culmination of the course: the ability to produce meaningful treatment outcomes like a Certified Neurorehabilitation Professional™.

Ideal for:

- Physical Therapists

- Occupational Therapists

Upon Completion
You will know how to:

- Understand how to select baseline (and outcome) measures that will reflect the level of damage (and recovery) in the movement system

- Design and implement treatment interventions that address the core (and unique) set of movements in a salient activity and clusters of impairments that interfere

- Generate effective ideas for treating stubborn diagnoses that continue to interfere in every intervention

- Select treatment strategies for effective arm and hand movement based on diagnoses and patient-selected activities

- Demonstrate skillful use and withdrawal of feedback for greater patient independence

PROGRESS ACTION AND
REFINE MOVEMENT