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AOTA Approved Provider #4023

**Course Title:** Neurology UE 102

**Sub-Title:** Motor Control and Learning

**Course Description:** Neurology UE 102, Motor Control and Motor Learning, is a 2-hour course designed for the intermediate clinician. Motor control is fundamental to everyday movements. It directs posture and movement. Functional abilities and skills are acquired during the process of motor development through motor control and learning. This course begins with a definition of both motor control and motor learning. A discussion regarding the relationship between motor control with motor development and motor learning with motor development are presented. Different theories of motor learning including Adams' Closed-Loop Theory and Schmidt's Schema Theory will be reviewed. This course will also review phases of motor learning, constraints to motor development, control and learning along with age related systems that effect motor control and its relationship with therapeutic exercise. At the end of this course, the learner will have a better understanding of motor control and motor learning and how a neurological deficit can affect a patient's ability to perform and/or learn age-appropriate motor tasks and engage in purposeful movement.

**Target Audience:** OT/OTA

**Course Length:** 2 hours

**Course Author/Instructor:** Martin, PT, MACT and Kessler, PT, MHS / Brown, MS, OTR/L, CHT

**Educational Level:** Introductory, Intermediate, Advanced

The course is written at the intermediate level, but learners of all levels will benefit from the information.

**Course Objectives:**

At the conclusion of the course, participants will be able to:

- Define motor control and motor learning
- Understand the relationship among motor control, motor learning, and motor development
- Distinguish between the hierarchic and systems models of motor control
- Explain the development of postural control and balance
- Describe the role of experience and feedback in motor control and motor learning
- Relate motor control and motor learning theories to therapeutic intervention

## **Outline of Content:**

### **Hour #1**

Introduction

Motor Control

Relationship of Motor Control with Motor Development

### **Hour #2**

Motor Learning

Relationship of Motor Learning with Motor Development

Summary

## **Instructional Methods and Formats:**

Online course available 24/7 at [www.OnlineCE.com](http://www.OnlineCE.com) includes PDF downloadable course. See course formats for additional details.

## **Course Completion Requirements:**

A minimum passing score of 100% is required for course completion. You will have as many attempts as needed until your passing score of 100% is achieved. Upon successful completion of course, you will receive your certificate of completion and AOTA eligible CEUs.

## **AOTA Classification Codes:**

Category 1: Domain of OT

Category 2: Occupational Therapy Process

Category 3: Professional Issues

## **Additional Policies:**

OnlineCE Policies are available by clicking on the tab – Policies – located in the left hand navigation bar.

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