



AOTA Approved Provider #4023



**Course Title:** Driver Rehab 106

**Course Subtitle:** Professional Ethics and Evidenced-Based Driver Rehab Practice

**Course Description:**

Driver Rehab 106, Professional Ethics and Evidenced-Based Driver Rehab Practice, is a 5-hour course designed for the Occupational Therapist or Driver Rehab Specialist working in the area of driver rehabilitation. This course consists of three parts. Part 1, “Legal and Professional Ethics in Driver Rehabilitation” explores a variety of issues related to driving and driver rehabilitation. This course does not provide legal advice, but rather helps the clinician understand the legal and ethical issues as they are related to this specialized area of rehabilitation. Part 2, “Research and Evidenced-Based Practice in Driver Rehab” reviews the importance of research in driver rehabilitation. Research is important in defining and developing improvements for individuals with disabilities and this course will help the clinician better understand the research process as well as explore different models of research. In conclusion, Part 3 of this course, “Emergent Functional Brain Imaging and Driver Rehabilitation”, provides an overview of current state-of-the-art methodologies used in neuroimaging. This is important technology for the clinician studying rehabilitation that involves the restoration or reassignment of neural activity. Relevant technologies in neuroimaging for rehabilitation, such as electroencephalography, magnetoencephalography, magnetic resonance imaging and near-infrared spectrometry will all be reviewed. At the end of this lesson, the learner will have a much better understanding of professional ethics, research and functional brain imaging as it relates to the field of driver rehabilitation.

Upon the completion of this course and successfully answering 15 interactive, multiple-choice questions, the learner will receive a certificate of completion for .5 AOTA eligible CEU’s.

**Course Length:** 5 Hours

**Course Authors:** Janie Scott, MA, OTR, FAOTA, Franklin Stein, PhD, OTR, FAOTA, and Richard Genik, PhD, Li Hsieh PhD, and Christopher Green, MD, PhD

**Course Instructor:** Miriam Watson, OTR/L, CDRS

## **Course Objectives:**

Upon course completion, the learner will be able to:

### **Part One:**

- Be familiar and discuss legal and professional ethics related to driver rehab
- Identify states that have different license renewal regulations based on age
- Understand state requirements for physicians and health care professionals in reporting and treating someone with a specific medical condition
- Understand the consequences for not reporting someone
- Understand what ethical issues and dilemmas driver rehabilitation specialists face

### **Part Two:**

- Understand the importance of research in driver rehabilitation
- Understand the steps in the research process.
- Understand the differences between and uses of quantitative and qualitative research
- Define and differentiate various research models

### **Part Three:**

- Become familiar with current state-of-the-art technology in neuroimaging
- Outline and understand the various imaging modalities and how they work
- Describe application of imaging techniques in evaluation of driving performance for clients with brain injuries
- Recognize the importance in developing a new perspective for driver rehab in convergence between advanced technology and rehab approaches

## **Outline of Content:**

### **Hour 1-2:**

Demographics

Current Laws

Legal Issues

A Closer Look at Legal and Ethical Issues

State Regulatory Agencies

Evidenced-Based Practice

Maintaining Professional Competence

Medications and Driving

Ethics and the Clinical Evaluation

Case Study #1 - #3

Department of Transportation, Professional Organizations and Key Employers of DRS

Summary

**Hour 3:**

People with Disabilities and Driving  
Definition of Research and its Application to Driver Rehab  
Steps in the Research Process  
Quantitative and Qualitative Research Models  
Summary

**Hour 4-5:**

Next Generation Imaging in Driver Rehabilitation  
Relevant Technologies in Neuroimaging for Rehabilitation  
    Electroencephalography  
    Magnetoencephalography  
    Functional Magnetic Resonance Imaging  
    BOLD imaging  
    Susceptibility Weighted Imaging  
    Diffusion Weighted Imaging  
    Diffusion Tensor Imaging  
    Near infrared Spectroscopy  
New Technologies in Driving Studies: Use of a Simulated Driving Environment  
The Role of Rehabilitation  
Case Study: MEG Neuroimaging Study on Driving Performance for Normal Adults  
Detailed Clinical Research Example  
Summary