

Vision in Neurorehabilitation: Practical Tools for Assessment & Management

February 5 – March 28, 2024
On-demand Course



Vision in Neurorehabilitation: Practical Tools for Assessment & Management

The Academy is the educational arm of Shirley Ryan AbilityLab (formerly RIC), a non-profit rehabilitation hospital in Chicago that has been ranked number one by *US News and World Report* since 1991. The Academy offers a wide range of accredited programs with the common goal of improving patient outcomes through clinical excellence. Our commitment to sharing the best evidence and rehabilitation practice with clinicians around the globe has always been an integral part of our mission.

The Academy is committed to creating an inclusive, authentic, and comfortable learning environment that celebrates and supports all learners. We are dedicated to providing the highest-quality teaching regardless of race, age, ethnicity, nationality, gender, sexual orientation/identity, ability, religion, language or culture. Above all, we believe that everyone should feel safe, respected, and welcomed when attending our programs at the hospital or online. We encourage the sharing of experiences and perspectives so we can learn from one another, and from our varied points of view.

**NOTE: This course is a prerequisite if you plan on attending
“Advanced Vision: Optimizing Outcomes in Neurorehabilitation.”**

For more information on that program, please go to
www.sralab.org/academy.

Course Description

This online course offers a comprehensive exploration of how visual and perceptual impairments can profoundly impact an individual's daily routines and their ability to engage in designated roles. Visual impairments can limit progression across different levels of care and various types of activities (e.g. reading, mobility, and self-care). This course aims to familiarize participants with prevalent visual-perceptual impairments that often constrain the performance of patients coping with visual challenges stemming from neurological injury or illness. Participants will not only revisit key anatomical features but will also delve into the fundamental components of a comprehensive vision assessment. This assessment encompasses critical aspects like visual acuity, ocular motor control, ocular alignment, visual fields, and spatial neglect. These concepts are organized in a simple framework that supports effective interpretation of a visual assessment and clinical decision-making to develop of a plan of care. Instructors will provide insights into adaptable assessment approaches tailored to individuals facing cognitive or communication impairments. Case examples and videos will support the interpretation and application of novel concepts.

Location and Delivery Method

This is an on-demand course. All materials are designed to be self-paced and completed based on the course schedule.

Successful Completion

Participants will complete a total of 22.5 hours of material divided into Foundational Knowledge and Clinical Application. This online content will consist of videos, readings, case studies, vision screening practice, and knowledge checks. It is recommended that the course material be completed in sequential order. There will be two optional office hours with course faculty to allow the opportunity for live interaction with the course material. All participants will be required to complete a final online evaluation by **March 28th 2024**.

Who Should Attend

Occupational Therapists, Occupational Therapy Assistants, Physical Therapists and Physical Therapist Assistants

Course Objectives

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

1. **Identify** key anatomical features of the visual system and common visual-perceptual deficits associated with neurologic diagnoses.
2. **Select** appropriate components of a comprehensive vision assessment using the framework introduced during course (visual acuity impairments, ocular motor changes, visual field loss and spatial neglect).
3. Critically **assess and interpret** findings from a visual assessment in the context of case examples.
4. **Prioritize** interventions to address performance breakdowns related to common visual perceptual deficits observed in neurologic patients.
5. **Identify** symptoms or other contributing factors that may influence performance during a visual assessment with neurologic patients.

Featured Faculty



Viktoriya Landar, OTR/L
Occupational Therapist, Atlanta GA

Viktoriya Landar graduated from Boston University in 2016 and has since worked with patients with stroke and brain injury throughout the continuum of care from inpatient to outpatient rehabilitation. Viktoriya has a strong interest in vision, previously working for several years as a vision lab specialist at the Shirley Ryan AbilityLab. Viktoriya has previously guest lectured on topics related to management of visual changes and spatial neglect, at universities and interdisciplinary conferences. Special interests include assessment and treatment of spatial neglect, diplopia management and low vision strategy/advocacy for patients with new onset low vision or chronic eye health issues. Viktoriya is currently pursuing her Master of Public Health at Emory University.



Kelsey Watters, CScD, OTR/L, BCPR, CBIS

Occupational Therapist, Shirley Ryan AbilityLab

Adjunct Faculty, University of Pittsburgh, Occupational Therapy program

Adjunct Faculty, University of Illinois Chicago, Occupational Therapy program

Kelsey Watters is an occupational therapist (OT) and clinical practice leader for OT at the Shirley Ryan AbilityLab (SRALab) since 2012. She graduated from University of Washington with her master's in occupational therapy in 2011 and her doctorate of clinical science (CScD) in occupational therapy at the University of Pittsburgh in 2022. Clinically, she works in the Think + Speak Lab and specializes in working with patients to address challenges with both functional cognition and vision/perception. In 2020, Kelsey obtained her AOTA Board Certification in Physical Rehabilitation (BCPR). Her clinical interest areas include traumatic brain injury, visual/ perceptual impairments and functional cognition. Kelsey has led workshops about brain injury, functional cognition and vision at Shirley Ryan AbilityLab. She is an adjunct instructor in the Occupational Therapy program at the University of Pittsburgh and teaches regularly at the University of Illinois Chicago's Occupational Therapy program.

Additional Faculty (Listed Alphabetically):



Stacey Lane, PT, DPT, NCS

Physical Therapist, Shirley Ryan AbilityLab

Stacey began her career 15 years ago working in inpatient rehabilitation at Craig Hospital in Denver, CO. During that time, she developed a passion for treating patients with neurologic conditions and soon realized the prevalence of vestibular dysfunction in many of her patients. For the past 12 years with Shirley Ryan AbilityLab, Stacey has gained expertise in treating individuals with a wide range of vestibular conditions, concussion, and cervicogenic dizziness. She also cultivated a team approach to vestibular mentorship for clinicians within the organization to better serve patients. Stacey completed the Vestibular Rehabilitation Competency-Based Course at Emory University in 2014.

Shelby Masland, MA, CCC-SLP

Speech-Language Pathologist, Shirley Ryan AbilityLab



Shelby Masland graduated from the University of Florida with her Master of Arts in Speech-Language Pathology in 2014. Prior to joining the SRALab team in 2019, Shelby spent time in Georgia and Texas, working with patients across settings (outpatient, acute, inpatient rehab) and across the lifespan (NICU, pediatric, adult, geriatric). In 2022, she was awarded the titles of Senior Speech-Language Pathologist at SRALab, and Adjunct Assistant Clinical Professor in the School of Communication at Northwestern University. Shelby's special interest patient populations include brain injury, medically complex, and progressive neurological disorders.

Haleigh Nierman, OTR/L

Occupational Therapist, Shirley Ryan AbilityLab



Haleigh Nierman graduated from Rush University in 2018 and works on the inpatient pediatric floor as well as a vision lab therapist in the Think & Speak lab at Shirley Ryan AbilityLab. Coming from a family of optometrists, Haleigh has a special interest in working with patients with visual impairments and challenges. Haleigh enjoys mentoring colleagues in all things vision and acts as the pediatric vision lab specialist on the inpatient floors.

Dr. Michael Zost, O.D., FAAO, FCOVD

Optometrist, Vision Rehabilitation Associates



Dr. Michael Zost has served as an Associate Professor of Optometry at the Illinois College of Optometry in Chicago since 1986 where he also received his Doctor of Optometry degree. He then completed a residency in Rehabilitative Optometry at the Northport VA Medical Center in Northport, New York with an emphasis on primary care, vision therapy, contact lenses, and low vision. Dr. Zost is a vision consultant at the Shirley Ryan AbilityLab where he examines and treats patients who experience disrupted or loss of vision due to an acquired brain injury.

Course Syllabus

Office Hours (Optional): Tuesday, February 20, 2024 & Thursday, March 7, 2024 from 5-6 PM CDT

Ask the Expert: (Optional): April 16th 2023 from 4-5 pm CDT Post Course Opportunity

Session 1: Introduction to Visual Processing System and Anatomy

Session 1 Objectives:

- Describe the implications of visual impairments on daily function and recovery process within the rehabilitation setting.
- Identify key anatomical features of the visual system and associated visual-perceptual deficits.
- Identify common presentations associated with neurologic vision diagnoses.

Part I: Foundational Knowledge (Approximately 1.5 Hours):

- Read Article: *A Model for Vision Rehabilitation and the Role of the Physiatrist on the Interdisciplinary Team*
- Watch Video Content
- Complete Knowledge Check Quiz

Part II: Clinical Application (1.5 hours)

- Watch Video Content
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Session 2: Assessment of Visual Integrity

Session 2 Objectives:

- Describe the components of comprehensive vision assessment and discuss potential adaptations to vision assessment administration to a patient with various cognitive and communication needs.
- Select the appropriate assessment tools to measure different aspects of visual acuity and visual fields.
- Describe findings from initial patient intake, acuity and visual field assessment using objective terms within clinical documentation.

Part I: Foundational Knowledge (Approximately 2 Hours):

- Watch Video Content
- Complete Knowledge Check Quiz

Part II: Clinical Application (1.5 hours)

- Watch Video Content

Session 3: Assessment of Visual Efficiency

Session 3 Objectives:

- Revisit assessment framework and select the appropriate assessment tools to measure different aspects of ocular motility and ocular alignment, including potential adaptations to these assessments.
- Describe findings from ocular motility and ocular alignment assessment using objective terms within clinical documentation.
- Interpret findings of assessment to determine main impairments impacting functional performance through case examples.

Part I: Foundational Knowledge (Approximately 2 Hours):

- Watch Video Content
- Complete Case Study “Antonio”
(Review Case Study Video and Practice Filling Out Visual Screening Form)

Part II: Clinical Application (1.5 hours):

- Watch Video Content

Session 4: Introduction to Intervention & Caseload Management

Session 4 Objectives:

- Identify common presentations associated with low vision diagnoses.
- Describe clinical decision-making framework when developing a comprehensive treatment plan using intervention guidelines to address common visual impairments observed in neurologic patients.
- Prioritize interventions to address low vision impairments to support occupational performance based on available evidence, patient presentation and goal areas.

Part I: Foundational Knowledge Approximately 1.5 hours):

- Watch Video Content
- Complete Knowledge Check Quiz

Part II: Clinical Application (1.5 hours):

- Watch Video Content

Session 5: Advanced Application of Intervention & Caseload Management

Session 5 Objectives:

- Apply clinical decision-making framework when developing a comprehensive treatment plan using intervention guidelines to address common visual impairments observed in neurologic patients.
- Discuss recommendations for documentation and considerations for integrating speech or cognition-based goals in the context of visual interventions.
- Prioritize interventions to address visual impairments in speech or cognition-based tasks based on available evidence, patient presentation and goal areas.

Part I: Foundational Knowledge (Approximately 1.75 Hours):

- Watch Video Content
- Complete Case Study Recommendations

Part II: Clinical Application (1.5 Hours):

- Watch Video Content

Session 6: Spatial Neglect & Perception

Session 6 Objectives:

- Identify key anatomical features, common symptoms and performance patterns associated with spatial neglect.
- Describe common assessment tools available to determine presence and severity of spatial neglect and differentiate from other perceptual deficits.
- Describe various treatment strategies to manage spatial neglect and clinical reasoning for selection of specific intervention approach through the use of case examples and videos.

Part I: Foundational Knowledge (Approximately 2.25 Hours):

- Read Article: *Spatial Neglect and Anosognosia After Right Brain Stroke* = 51 minutes
- Watch Video Content
- Complete Knowledge Check Quiz

Part II: Clinical Application (1.5 Hours):

- Watch Video Content

Session 7: Interprofessional Care of the Patient with Visual Impairment & *Wrap Up*

Session 7 Objectives:

- Describe each discipline's role on the interprofessional team when working with a patient with a visual impairment.
- Review key take-aways from the entire course that will influence future practice.

Part I: Foundational Knowledge

- No Foundational Knowledge content for Session 7

Part II Clinical Application (1.5 Hours)

- Watch Video Content

Optional "Ask the Expert"- Kelsey Watters

April 16th 4-5 PM CDT

Following the completion of the course, we offer an optional drop-in session designed to empower learners in the application of novel assessment and intervention strategies with patients. Recognizing the comprehensive nature of this course, we encourage learners to bolster their understanding by taking the opportunity to review course material and apply it in real-world scenarios with patients before seeking further clarification and support.

Cancellation Policy

All cancellations must be requested by email at academy@sralab.org. Refunds less a 20% administrative charge will be given until 30 days before the start date of the course. If the cancellation notice is received less than 30 days from the start date of the course, a credit towards a future continuing education program would be applied for 1 year from the start date of the canceled course. The Academy reserves the right to cancel or change any programs for due cause. The cancellation of a program by the Academy will result in a full refund of tuition.

Important Registration Information

Registrations will be taken in the order in which tuition checks or credit card information is received. We highly encourage you to register online as these are processed more quickly than mailed registrations. Full tuition must accompany the registration form to confirm your place in this course. Until you receive your confirmation letter, you are not officially registered for the course. For online registrations, you will receive email confirmation on the same day that you register. For registrations received by standard mail, the confirmation may take up to 3 weeks to process. If you do not receive confirmation within this period, please call 312-238-6042. One week prior to the course, only internet registrations that include an email will be accepted. Please note that once the course has reached its maximum enrollment, no additional spots will become available.

Technology Requirements

To participate, you will need access to a computer with an internet connection. High-speed broadband access (LAN, Cable or DSL) is highly recommended.

- Internet connection: broadband wired or wireless (3G or better)
- Web browser with latest stable version. Recommended browsers are Apple Safari, Google Chrome, Mozilla Firefox and Microsoft Edge
- JavaScript and Cookies enabled
- Speaker or headset to listen to audio files and participate in Zoom calls
- Do NOT use Internet Explorer, as it is not supported.

Accessibility

Please contact the Academy if you require any special accommodation for this course.

Continuing Education Credit

Occupational Therapy:



Shirley Ryan AbilityLab is an AOTA Approved Provider of professional development. Course approval ID# 3695. This distance learning independent course is offered at 22.5 Contact Hours, 2.25 CEU [intermediate level, Foundational

knowledge/ OT Service Delivery]. AOTA does not endorse specific course content, products, or clinical procedures.

Physical Therapy:

This online course has been approved by the Illinois Physical Therapy Board for 22.5 Contact Hours (12 hours self-study & 10 hours live). On-Demand approved for (22.5 hours self-study). Approval #216-000069

The Shirley Ryan AbilityLab is recognized by the California and New York State Education Department's State Board of Physical Therapy as an approved provider of physical therapy and physical therapist assistant continuing education. This course has been approved for 22.5 Contact Hours (12 hours self-study & 10.5 hours live) or all on-demand (22.5 hours self-study) on 2/5/2024.

The following states require continuing education units or contact hours with no state specific approval: CT, IA, and WA

Faculty Disclosures

Course Director's and Planning Committee Members' Disclosure Information:

Julie Lenkiewicz, MS, CCC-SLP
Leslie Marriott, OT

Has nothing to disclose.
Has nothing to disclose.

Speakers, Moderators and Panelists' Disclosure Information:

Viktoriya Landar, OTR/L
Stacey Lane, PT, DPT, NCS
Shelby Masland, MA, CCC-SLP
Haleigh Nierman, OTR/L
Kelsey Watters, OTR/L, BCPR
Dr. Michael Zost, O.D., FAAO, FCOVD

Has nothing to disclose.
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THANK YOU

We would like to thank **MERZ** for their educational grant which supports the Academy at the Shirley Ryan AbilityLab and helps us pull together programs such as this.



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Register online at <https://www.sralab.org/academy> or complete the form below and return with payment.

Mail to: Academy
Shirley Ryan AbilityLab
355 E. Erie Street, Suite 12-West
Chicago, Illinois 60611

	Before 12/14/23	After 12/14/23
Registration Fee	\$550	\$650
<i>Or purchase this course along with the 2 day, in-person course:</i> Advanced Vision: Optimizing outcomes in Neurorehabilitation	\$700	\$800

Please contact the Academy for group discounts

Questions? Contact Leslie Marriott, lmariott@sralab.org, (312) 238-6832

Please **TYPE** or **PRINT** your name and professional initials (MD, OT, PT, RN, etc.) as you would like them to appear on your continuing education certificate.

First Name _____ Last Name _____

Home Phone (_____) _____ Prof. Initials _____

Home Address _____

City _____ State _____ Zip _____

Organization/Facility _____

Work Address _____

City _____ State _____ Zip _____

Work Phone (_____) _____ Fax (_____) _____

Position _____

E-mail (required) _____

Please note: registration will not be processed without full payment.

Method of Payment: Check enclosed (Payable to: Shirley Ryan AbilityLab)
 Credit Card

Credit Card Users Must Complete the Following Information:

MasterCard VISA American Express

Credit Card # _____ - _____ - _____ - _____

Expiration Date __ / __ CVV _____ (security code on back of card)

Name on Card _____

Billing Address _____

City _____ State _____ Zip _____

Cardholder's Signature _____