



Online Continuing Education Courses
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AOTA Approved Provider #4023

Course Title: Assistive Technology 109

Course Subtitle: Computer Access: Augmenting the Keyboard and Mouse

Course Description: Assistive Technology 109, Computer Access: Augmenting the Keyboard and Mouse, is a 1-hour course designed for the clinician working with patients in need of adaptive equipment for the mouse and keyboard. The best approach to adapting a computer for use by an individual with a physical impairment is typically to start with the simplest modification. This course will present an overview of simple adaptations available and then progress to more complex systems and equipment. At the end of this lesson, the clinician will be prepared to make appropriate equipment recommendations for the patient which will enhance their ability to access computer systems.

Target Audience: OT/OTA

Course Length: 1 hour

Course Author/Instructor: Cook, Phd, and Polgar, PhD, OT and Brown, MS, OTR/L, CHT

Educational Level: Introductory, Intermediate, Advanced

Course Objectives:

- Describe the computer-user interface
- List the major components of a computer system and give the function of each
- Describe the major approaches to keyboard and mouse emulation
- Describe the major issues facing people with disabilities who want to use mainstream technologies
- Describe the major approaches to electronic speech generation used in assistive technologies

Outline of Content:

Hour #1

Keyboards – Typical and Unique
On-Screen Keyboards

Built-In Software Adaptations to the Standard Keyboard
Automatic Speech Recognition as an Alternative Keyboard
Case Study – Evaluation and Selection of Speech Recognition

Mouse

- Touch Screen Mouse Emulation
- Keypad Mouse
- Trackball
- Continuous Input Joysticks
- Head-Controlled Mouse Emulators

Connecting an External Control Interface to the Computer

- USB Switch Connectors
- Customizing the Emulator – The Use of “Setups”
Case Study – Mr. Cohen
- General Purpose Emulators
- Using Scanning to Substitute for a Keyboard or Mouse

Communication Devices as Alternative Computer Inputs

Accessibility for Mobile Devices

Internet Use by Persons with Physical Disabilities

Speech Output

- Digital Recording
- Speech Synthesis
- Audio Considerations

Instructional Methods and Formats:

Online course available 24/7 at 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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