



Course Title: Assistive Technology 121 - Control Interfaces for Assistive Technologies

Source: Assistive Technologies: Principles and Practice, 4th ed, by Albert Cook, PhD, PE and Janice Miller Polgar PhD, OT

Source Description: It's here: the latest edition of the one text you need to master assistive strategies, make confident clinical decisions, and help improve the quality of life for people with disabilities. Based on the Human Activity Assistive Technology (HAAT) model, Assistive Technologies: Principles and Practice, 4th Edition provides detailed coverage of the broad range of devices, services, and practices that comprise assistive technology, and focuses on the relationship between the human user and the assisted activity within specific contexts. Updated and expanded, this new edition features coverage of new ethical issues, more explicit applications of the HAAT model, and a variety of global issues highlighting technology applications and service delivery in developing countries.

View outline of content below for inclusive content and details regarding the Assistive Technologies 121 course.

Target Audience: OT / OTA and other healthcare professionals

Course Type: Video vs. Text-based

Educational Level: Beginner, Intermediate, Advanced

CE Hours: 3 contact hour / .3 ceu

Course Prerequisites: None

Course Author / Instructor: Albert Cook, PhD, PE and Janice Miller Polgar PhD, OT /Brown, MS, OTR/L

Learning Objectives:

- Describe the elements of the human/technology interface and its role within the assistive technology component of the Human Activity Assistive Technology mode
- Describe the characteristics of control interfaces
- Identify 3 technologies for direct selection
- Identify 3 technologies for indirect selection
- Discuss a framework for control interface assessment
- Describe context issues related to control interface use
- Describe 2 strategies for determining the effectiveness of control interfaces

Agenda:

Hour #1

Activity: Enabling Participation
Human Skills for Control: Characteristics of Controlled Movements
Characterization of Controlled Movements
Assistive Technology: Characteristics of Control Interfaces Spatial Characteristics
Activation and Deactivation Characteristics Sensory Characteristics
Control Interfaces for Direct Selection Keyboards
Touch Screens

Hour #2

Concept Keyboards for Users with Cognitive Limitations Eye-Controlled Systems
Tracking of Body Features Enhancing Keyboard Control
Head Pointers, Hand Pointers, and Mouth Sticks Positioning the Keyboard for Use
Standard and Alternative Electronic Pointing Interfaces Mouse
Keypad Mouse Trackball Continuous Joysticks
Head-Controlled Mouse
Using Pointing Interfaces for Direct Selection Making Selections with a Pointing Device Light
Pointers

Hour #3

Control Interfaces for Indirect Selection Types of Single Switches
Switch Arrays, Discrete Joysticks, and Chord Keyboards Enhancing Control-Joystick Templates
Mounting the Control Interface for Use Context
Assessment
Applying the Outcomes of Needs Identification and Physical-Sensory Evaluations to Control
Interface Selection Selecting a Control Interface
Multiple versus Integrated Control Interfaces
Outcomes: Is It Working? Evaluating the Effectiveness of a Control Interface
Summary

Course Completion Requirements:

A 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 and completing a satisfaction survey, you will receive your certificate of completion.

Additional Course Information

Course Registration: Register for Free at www.OnlineCE.com. Once registered, you can begin to purchase courses. Contact info@onlinece.com for special needs requests and assistance.

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Course Date and Location: This is an independent course that is available 24/7 on-demand at www.OnlineCE.com.

Required Materials and Equipment: Courses offered on OnlineCE.com can be accessed on any type of computer or device. No special software is required but we do recommend the use of the Chrome Browser (recommended, not required). All course materials are contained within the courses and no prerequisites are required.



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