



Online Continuing Education Courses
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AOTA Approved Provider #4023

Course Title: Assistive Technologies 121

Course Subtitle: 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 Length: 3 hours

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

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 end of the course, participants will be able to:

- 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

Outline of Content:

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 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 the 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:

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