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AOTA Approved Provider #4023

Course Title: Assistive Technologies 106

Course Subtitle: Technologies that Aid Manipulation and Control of the Environment

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 106 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:

- List functional manipulative tasks that can be aided by assistive technologies
- Describe the different ways manipulation aids are designed to enable manipulation
- List the features and design properties of electronic page turners
- List the functions carried out by electronic aids to daily living
- Describe the different ways that electronic aids to daily living are connected to the devices they control

- Describe the basic components of electronic aids to daily living and how they are implemented
- Discuss the uses of robotic devices in aiding manipulation by persons with disabilities
- Describe an assessment process to identify appropriate manipulation aids

Outline of Content:

Hour #1

Activity Component
 Human Component
 Context Component
 Physical Context
 Social/Cultural Contexts
 Institutional Context
 Low-Technology Aids for Manipulation
 General-Purpose Aids
 Special-Purpose Aids
 Self-Care

Hour #2

Work and School
 Play and Leisure
 Special-Purpose Electromechanical Aids for Manipulation
 Electrically Powered Page Turners
 Electronic Aids to Daily Living
 Functions of Electronic Aids to Daily Living
 Transmission Methods
 Selection Methods
 Trainable or Programmable Devices
 Telephone Control
 Configuring Electronic Aids to Daily Living
 Robotic Aids to Manipulation
 Principles of Assistive Robots

Hour #3

Robots as Personal Assistants
 Mobile Assistive Robots
 Robots for Social Integration
 Robots Supporting Older Adults
 Robot Use by Children for Play and Learning
 Assessment for Use of Manipulation Aids
 Acute Care and Rehabilitation Contextual Implications
 Community Context
 Outcomes of EADL Use
 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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