



**Course Title:** Assistive Technology 106 – Technology 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 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:**

- 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

### **Agenda:**

### **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 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](http://www.OnlineCE.com). Once registered, you can begin to purchase courses. Contact [info@onlinece.com](mailto:info@onlinece.com) for special needs requests and assistance.

**Refund Policy:** There will be no refunds for courses taken at OnlineCE.com or monies deposited into My CE Bank. Any money on account will be used for taking future courses. If you start a course in error, or if you are dissatisfied with a course, please contact us in the first part of the course and we will void the course and you can select a replacement course.

**Cancellation Policy:** Only available courses are offered online and on-demand and available for purchase. No registration fees are collected for courses that are not provided on-demand. Due to the online and on demand format, courses are not cancelled.

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