Assistive Technology and the Workplace

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Description and Learning Objectives:

This webinar will demonstrate technologies that can be used to support individuals with disabilities in various career paths, and explore innovative solutions to increase independence and productivity in the workplace.

Participants will be able to identify and describe at least:

• 5 different assistive technologies to support employees in different career technical paths

• 5 different everyday tools and materials for creating employability-related accommodations.

• 3 different resources to obtain needed tools, materials, and technologies to support independence and employability skills.
Assistive Technology Solutions for Various Career Paths

• Office Work – Receptionist, Office support
• Production Assembly
• Agriculture and Outdoor careers
• Maintenance and Repair
• Food Service
Agriculture

- Landscaping
- Greenhouse work
- Livestock handling and feeding
- Gardening
Livestock Handling
Lawn care Worksite Modifications
Back saving tools
Smart Garden Cart with Ergonomic Handles
Trimmer Toad
Back Buddy
Back Saving Solutions
Ergonomic Grips
Working with Acrylic
Virtual Personal Care Assistant
Workplace accommodations using colors for task completion prompts
A.T. for Production Work Careers
Spring Loaded Cutting Jig for Grasping Impairments
Use a multi-sensory approach for Assembly of Med Kits

- Visual
- Tactile
- Auditory
Task Analysis & Chunk it Down
Strategies For Reducing Cognitive Demands for Paper Recycling Careers

• Paper sorting can be cognitively demanding due to decision making process that occurs when paper is selected
• Chunk tasks down – through a task analysis
• Look at current industrial sorting jobs
• Jigs, fixtures, scales
Labeling Jig

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One handed Napkin silverware rolling Jig
Worksite assembly jig to reduce visual and cognitive demands
One Handed Jig for Mail Sorting in Post office

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Rapid Prototyping
Color Coding Bins and Measuring
Maintenance and Repair Careers
BLACK & DECKER Auto Tape Measure – One handed

Black and Decker Auto Wrench
The Helpful Hand™
Magnetic Magic Finger
Rare Earth Magnets and JB Weld
Level 4: Fabricate New Solutions
Cam Assisted Pliers

- Curved "V" Notch
- Max/Min jaw force adjustment screw
- Jaw Force Indicator
- Parallel handles for one-handed operation
- Self-adjusting for thick or thin materials
Putting Work Gloves on with One Hand
Assistive Technology and Food Service Careers
Assistive Technology for Food Preparation
Assistive Technology for Work Task Reminding

• Vibrating Watches and assorted reminding devices
Up to 37 Daily LOUD Alarms
Motion Sensor Prompts and Alerts
Tactile Prompts

• Vibrating pager
• Vibrating watch reminder
• Vibrating Cellphone
iPAD and iPhone Apps, Adaptations, Accessories for Employment Success

• Smart Phones and apps – GPS and Scan and Read Stations
• Wearable Technologies – Google Glass
• Smart Watches – Pebbles
• Reminders, Prompts, Work Task Training

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iPADs and Service Trades -
Employees who are deaf and using iPAD to perform work tasks

• Shoe store
• Mail Delivery and postal work who is deaf
• AAC Flip Writter for communication using Voice Recognitions
• Using Photo Album
iPADs and Employee Who Are Blind

• Tap Tap see
• Textgrabber
• Vision Assist
• Point and Measure

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iPADs and Employees with Intellectual Disabilities

• Say&Go
• Adia
• Photo Album with Video Clips
• Pictella for job task sequencing
• Scene Speak for work task completion
• Coach Me Video – job coaching
• Priority Matrix
• Mytile app for finding misplaced tools
• Pebbles Watch for work task prompting and finding iPhone
Everyday Tools and Materials for Creating Worksite Accommodations in Minutes
Must have tools

- Ratcheting PVC cutter
- Pliers
- Corroclaw
- Loc-Line Pliers
- Scissors
- Acrylic cutter
- Utility knife
Adhesives

UGLu

REMO 2

Self-adhering silicone tape

Velcro Brand Industrial Hook and Loop

Dual Lock

Loc-lift Rug Gripper tape

Double-sided foam permanent tape
Plastics

- Loc-Line
- Acrylic
- Sintra Board
- CPVC pipe
- Black corner guard
- CPVC Winged elbow
- Corrugated plastic
- InstaMorph
The Eileen Lightweight, Affordable,& Portable, Adjustable iPAD Holder
Traveling Eileen Benefits Everyone
Adaptive Stylus for Employees with Disabilities

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Resources

• Job Accommodation Network: http://askjan.org/

• A.T. for Employers: http://atconnects.com/resources/at-for-employers

• Agrability - http://agrability.org/
State Assistive Technology Resources

Key Services Provided by Assistive Technology Projects in Each State

http://resnaprojects.org/nattap/at/stateprograms.html

- Device Loan Programs
- Device Reutilization Programs
- Device Demonstration Programs
- State Financing Activities

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Assistive Technology Solutions in Minutes – Book II


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