

Assistive Technology in the Workplace

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Presenter

- RESNA Certified ATP
- M.S. in Rehabilitation Science and Technology
- Taught undergraduate and graduate level assistive technology courses at East Carolina University
- Developed an online graduate certificate program in AT for East Carolina University





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Key Learning Objectives

- ➤ Review legislation and statistics
- ➤ Explore accommodation options
- ➤ Explore built-in accessibility features
- ➤ Apps, Universal Design, & Resources



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Legislation/Stats

- Section 504 of the Rehabilitation Act
- Americans with Disability Act
 - · Perform the core duties of a job
 - · Provide new equipment
 - Modify existing office equipment or assistive technology
 - Perform marginal or non-essential functions
 - · Request must not impose an undue hardship
 - Includes accessible websites



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Legislation/Stats

- In 2010
 - 46% of working adults between ages of 18 & 64 with a learning disability were employed
 - Only 19% of young adults stated that their employers were aware of their disability
 - Only 5% reported receiving accommodations in their workplace



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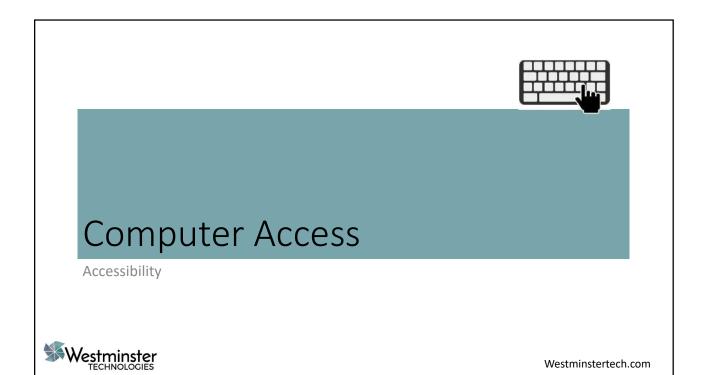
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Workplace Assessment

- Declaration of Disability
- Define the Situation job functions that need to be accommodated
- Explore AT Options
 - May already be proficient with a specific AT system
 - Contact an AT specialist (JAN); State VR agency; State AT Tech Act; RESNA
- Choose & Implement AT
- Monitor and Upgrade AT



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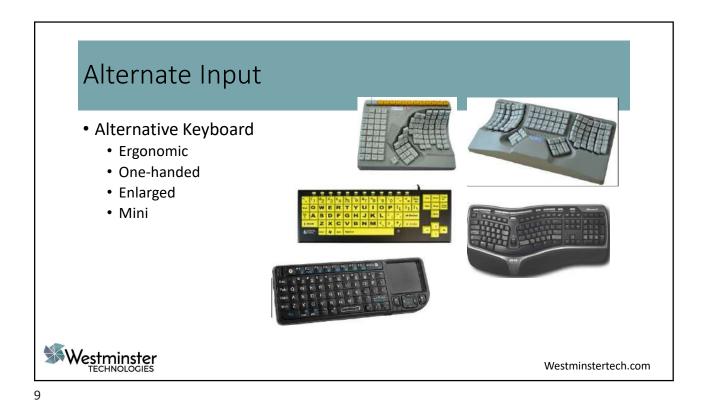


Alternate Input • Alternative Mouse • Ergonomic Mice • Trackballs • Joysticks • Touchpads

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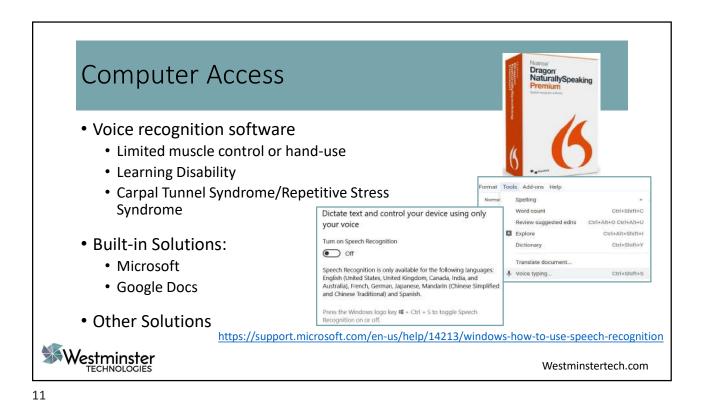


Computer Access

• Touch Screens

• Eye gaze

• Head mouse



Computer Access

• LV/Blindness

• Refreshable Braille Keyboards

• Screen Readers

• Screen Magnifiers

• Large Print Keyboards

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Computer Access

- Screen Access
 - Screen magnifiers
 - Built-in zoom features for Windows and Mac
 - Magic
 - SuperNova
 - ZoomText







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Computer Access Screen Access Screen Readers • Dolphin • JAWS • Built-in • Voice Over – Mac • Windows 10 Westminster TECHNOLOGIES

Computer Access

- Reading
 - Text-to-Speech
- Writing
 - Word Prediction
 - Voice Recognition
 - Graphic Organizers





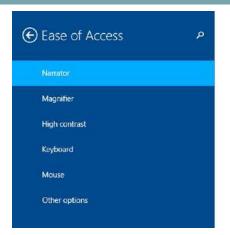
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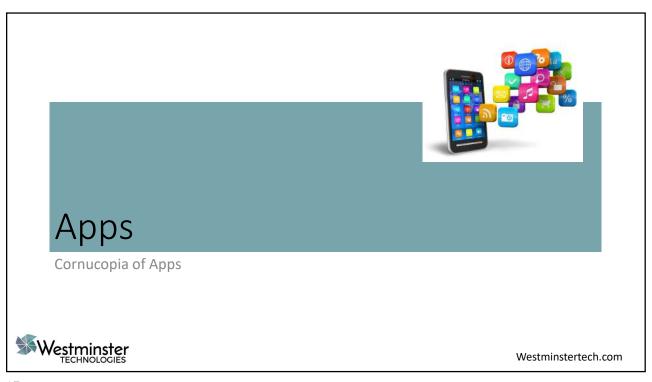
Built-in Accessibility Features

- OS Systems have built-in accessibility
 - Keyboard
 - Mouse
 - Screen Access
 - Increase size/font
 - High Contrast
 - Magnifier
 - Voice Input
 - Text-to-Speech

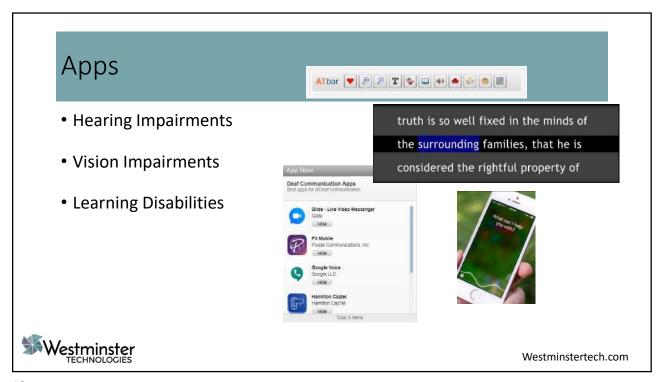


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- Live captioning
- Video conferencing
- Assisted listening systems
- ILA Instant Language **Assistant**

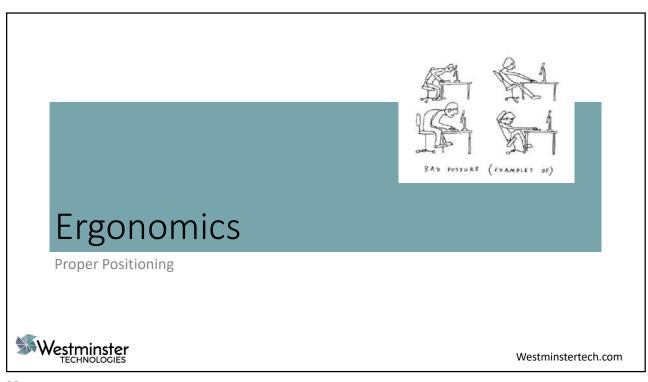


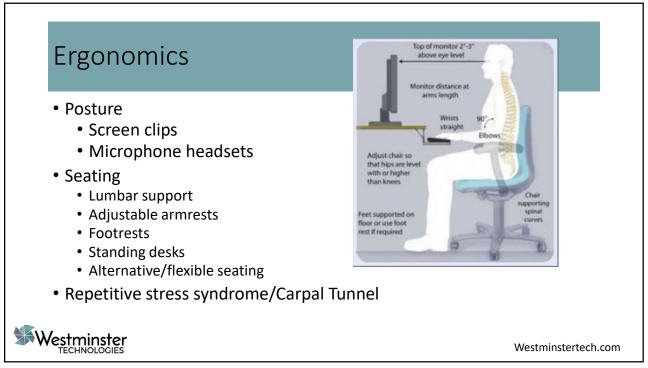


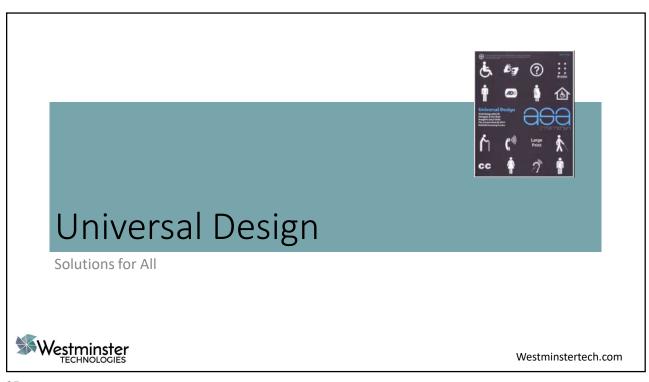
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Telephone Access • Captioned telephone systems • Neck loop listening device Amplified phones • Smartphone accessibility features Headset Westminster TECHNOLOGIES







Universal Design

- Useful to many employees
- Reduces need to purchase additional equipment
- Key is interoperability (compatible with other technologies and support integration of AT)





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Universal Design

- Employers should:
 - Consider equipment with UD features (OS)
 - Assess information systems for interoperability with AT
 - Evaluate maintenance of equipment
 - Upgradability what is needed when software/systems are upgraded



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Workplace Accessibility

Inclusive Practices



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Workplace Accessibility

- Create inclusive environments
- Product accessibility
- Empowering employees
- Education





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Workplace Accessibility

- Access to Technology in the Workplace: In Our Own Words
- JAN: Job Accommodation Network:
 - https://askjan.org/index.cfm
 - https://askjan.org/a-to-z.cfm
- TechCheck Assess the accessibility of the workplace technology
 - Accessible Technology Action Steps: A Guide for Employers



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References/Resources

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Questions



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Any Questions after Webinar

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