

# Foundations and Implications of Working with People Who Are Deaf, DeafBlind, or Hard of Hearing

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# Training Objectives

- Learn about hearing loss and vision loss
- Understand how hearing loss can impact people in daily life and at work
- Identify at least three communication modalities that people with hearing and/or vision loss utilize
- Understand the services and supports available and provided by VRS and SSB staff

# Demographics

- 1 in 5 Minnesotans experience some type of hearing loss.
- CDC says 34 million Americans have a hearing loss.
- 1.3 million Blind and 1 million Deaf nationally.
- 50,000-60,000 DeafBlind estimates nationally.
- Males more likely than Females to have hearing loss.
- WHO predicts by 2050, 2.5 billion worldwide will have a hearing loss.



#### Deaf

## Deafblind

### Hard of Hearing

## **Types of Hearing Loss**

### Conductive: sound is quieter

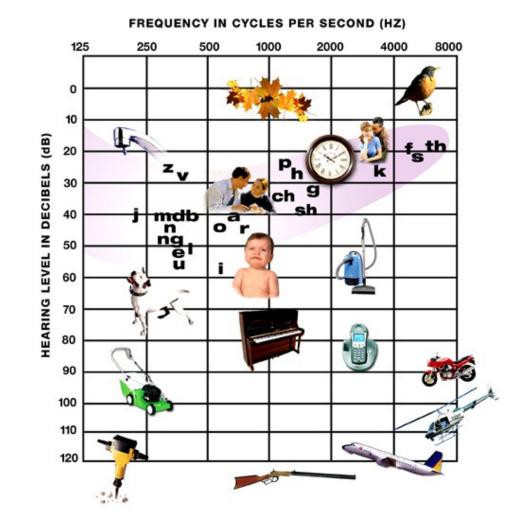
Sensorineural (nerve): perceived sounds can be garbled

Mixed

Auditory Neuropathy Spectrum Disorder

https://www.cdc.gov/hearing-loss-children/about/types-of-hearing-loss.html

### Audiogram Sample



#### Simulations

• Starkey Hearing Loss Simulation (starkey.com):

https://www.starkey.com/hearing-loss-simulator

• Hearing Like Me (hearinglikeme.com):

https://www.hearinglikeme.com/hearing-loss-simulator/

# Speechreading

- Can You Read My Lips (vimeo):
- <u>https://vimeo.com/148127830</u>



#### Only about 30% of English is visible when spoken.

#### Of that 30%, many words look alike-can you think of some?

#### **REPHRASE, DO NOT REPEAT**

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## **More Tips**

- Make Eye Contact
- Adjust Your Speed
- Avoid Environmental Distractions
- Add gestures, body language and facial expressions with caution
- Rephrase and/or expand your message
- Supplement with demonstrations and writing
- Use clarification techniques

#### Accommodations

Interpreters

Captioning

Speech-to-Text

Writing/Typing/Texting

Assistive Listening Devices (for Hard of Hearing)

Flashing Lights or vibrating devices

Buddy System-emergency notifications or evacuations

Occupational Communication Specialists (through VR counselor approval)

# Technologies

- Assistive Listening Devices
- Alerting Devices
- Captioning
- Applications
- Telecommunication Devices

# **Virtual Meetings**

- Provide or Request notetaker
- Use Captioning and save transcript at meeting conclusion
- Use of video
- Chat feature
- Limit or eliminate cross-talk (one person at a time)
- Speaker identification

## **Deaf Culture**



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# deaf/Deaf

- **deaf:** The term *deaf* refers to individuals with severe to profound hearing loss. The use of the lowercase "d" reflects a physical, audiological, or pathological view of a deaf person.
- **Deaf:** The use of the capital "D" in *Deaf* denotes a person who identifies as part of a cultural minority group, rather than as a person with a disability.

### **Deaf Culture Components**

- Language
- Behavior Norms
- Values
- Traditions

## **Considerations DHH**

- Identities and preferences
- Work Tolerance
- Trauma and previous school/work history
- Unemployment/Underemployment
- Isolation
- Availability of accommodations



Types of Deafblindness:

**Hearing Loss** 

Deaf, Hard of Hearing, Late-deafened

#### **Vision Loss**

Cataracts, Retinitis Pigmentosa, Diabetic Retinopathy, Macular Degeneration, Glaucoma, Homonymous Hemianopia

https://www.facebook.com/ClarisaVollmar/videos/565179653672116/

# A few vision loss examples

Normal Vision



#### Retinitis Pigmentosa / Usher Syndrome



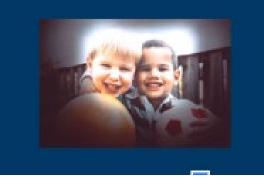
#### Macular Degeneration



#### Cataracts



Glaucoma



Diabetic Retinopathy



Rubella CHARGE

Syndrome

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# **DeafBlind Communication Options**

- ProTactile Communication
- Close vision signing or small signing space
- Tracking
- Tactile Sign Language and/or Fingerspelling
- Print-on-Palm
- Writing
- Aira ASL interpreting (aira.io) app
  - <u>www.aadb.org</u>

## **Considerations DeafBlind**

- Absences of cues
- Limited information available
- Must depend upon others' good will and sensitivity
- Limited participation in daily activities
- Unemployed or under employed
- Isolation

National Center on Deaf-Blindness <u>www.nationaldb.org</u>

#### Meeting Communication Strategies (applies to DHHDB)

- Meet with the interpreter beforehand
- Reserve seats
- Be aware of sight line
- Be aware of lighting
- Talk directly to the person
- Speak naturally
- Avoid private conversations
- One person should speak at a time
- Avoid asking the interpreter for opinions or comments regarding the content of the meeting
- Provide a short break every hour

Taken from <a href="https://edocs.dhs.state.mn.us/lfserver/Public/DHS-7916-ENG">https://edocs.dhs.state.mn.us/lfserver/Public/DHS-7916-ENG</a>



- Only 10% of the world's visually impaired-blind population knows Braille
- National Federation of Blind calls this a "Braille Literacy Crisis"
- Where to learn?

# Paper and Pen/Typewriter

Ways to produce Braille

- A slate and stylus (punching with a blunt needle backwards)
- Perkins brailler (functions just like a typewriter)
- Embosser (computer printout)

#### **Braille Devices**

- Braille Sense
- Smart Beetle





# **Software and Alerting Systems**

- Zoom Text
- JAWS and Fusion
- Dragon Speaking
- Aira (Be My Eyes) app

- Clarity AlertMaster
- VibraCall (wearable pager with specific colored lights to indicate doorbell, phone, etc.)
- ShakeAwake (vibrator put under pillow or mattress that shakes when the alarm goes off)

# **Available and Free Online trainings**

 <u>https://mn.gov/deaf-hard-</u> <u>of-hearing/learning-</u> <u>center/trainings/videos.jsp</u>

- Deaf Awareness Microcertificate through <u>www.nationaldeafcenter.org</u>
- "DeafBlind 101: An Introduction to Combined Hearing and Vision Loss" at <u>http://pathlore.dhs.mn.gov/</u> <u>courseware/DisabilityService</u> <u>s/DeafBlind 101/index.html</u>

#### **Other Resources**

- <u>https://mn.gov/deaf-commission/</u>
- <u>https://mn.gov/deaf-hard-of-hearing/</u>

### Questions



#### **THANK YOU!!**



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