



Skill Council for Persons with Disability Expository for Speech and Hearing Impairment E004

Definition

According to The Rights of Persons with Disabilities Act, 2016 Hearing Impairment defined as:

- (a) **"Deaf"** means persons having 70 DB hearing loss in speech frequencies in both ears;
- (b) **"Hard of Hearing"** means person having 60 DB to 70 DB hearing loss in speech frequencies in both ears;
- "Speech and Language Disability" means a permanent disability arising out of conditions such as laryngectomy or aphasia affecting one or more components of speech and language due to organic or neurological causes.

Severity Levels

The hearing sensitivity is measured in dB (HL) at frequencies from 250Hz to 8000 Hz, important for understanding the speech. The degree of hearing impairment in dB (HL) is calculated by averaging the hearing thresholds at 500Hz ,1kHz, 2kHz obtained from pure tone audiometer. Hearing impairment may be Various degrees.

Mild Hearing Loss (26 to 40 dB (HL): A person with mild hearing loss may have trouble in hearing and understanding soft speech in a background of noise.

Moderate Hearing Loss (41 to 55 dB (HL): The person may have difficulty in hearing conversational speech.

Moderately Severe Hearing Loss (56 to 70 dB (HL): Persons with moderately severe hearing loss may have difficulty in hearing conversational speech even at close distances.

Severe Hearing Loss (70 to 90 dB (HL): They may only hear loud environmental sounds.

Profound hearing loss (91 dB (HL and above): Persons with profound hearing loss may only hear very loud environment sounds.





Training Tools

Training Tools mentioned below, are Accessible Tools/Appliances/Software, which enable a Person with Disability (PwD) to carry out their training corresponding to the National Occupational Standards (NOS) of the Qualification Pack. While the learning outcomes from the Qualification Pack will remain the same, the methodology stated below will assist the trainers to train the trainees in the best suitable way according to their level of functioning. These suggested training tools facilitate the learning process of a Person with Disability to perform at par with their peers in a conducive and enabled environment.

Accessible Tools/Appliance s/Software	When to use this tool	Tools Description	How to use this tool	Tool Names
Live Captions	While teaching any of the NOS's mentioned above, if it is seen that a Persons with Hearing Impairment (HI) has difficulty in hearing conversations, audio recorded voices, then he/she can use this tool. It is preferable to have an interpreter for such meetings as literacy levels of hearing and speech impaired youth in the country are very poor- hence reading and comprehension will be extremely difficult for such people.	A person will be transcribing what is spoken in the meetings and functions to include a person with Speech and Hearing Disability (Hearing Impaired) by placing a request via internet. The spoken conversation is converted into text.	There are captioning companies to provide the service. In the training environment and meetings, one can volunteer. The person with Speech and Hearing Disability (Hearing Impaired) should be able to understand the written language.	Any of the following tools may be used: • Assistive Aid/Service • Ai-Live • Captions First • Captions 2020
Closed Captions	While teaching any of the NOS's mentioned above, if it is seen that a Hearing- Impaired person has difficulty in conversations, audio recorded voices in	Closed Captioning (CC) and subtitling are both processes of displaying text on a television, video screen, or other visual display to	Can be used to pre- record videos and audios to make the person with Speech and Hearing Disability (Hearing	Technology is the tool

Tools recommended for the Training of Persons with Speech and Hearing Impairment





Accessible Tools/Appliance s/Software	When to use this tool	Tools Description	How to use this tool	Tool Names
	that case he/she can use this tool. This would work the best for HI persons and is being done across the world to make barrier free communication.	provide additional or interpretive information.	Impaired) understand the same audio by reading the caption or subtitle.	
Speech to Text	While teaching any of the NOS's mentioned above, if it is seen that a Persons with Hearing Impairment has difficulty in hearing conversations, audio recorded voices; in that case, he/she can use this tool. This tool is recommended on the basis of literacy level of the Hearing-impaired candidate.	Convert speech into text. This can be used by a person who does not know sign language, which will help in communication with a person with Speech and Hearing Disability (Hearing Impaired).	Trainer or team member can use this instead of typing. The person with hearing or speech impairment should be able to read. The accuracy of many accents needs to be taken into consideration.	Any of the following tools may be used: • Assistive Aid/Service • Closed Capp • Let's Talk • Google Now for Android, • Siri for Apple IOS
Assistive Listening Device	While teaching any of the NOS's mentioned above, if it is seen that a Person with hearing impairment has difficulty hearing conversations, audio recorded voices, then he/she can use this tool. The tool can be recommended for all hearing-impaired persons, depending on affordability of the Person.	Converser assistive listening device which helps for people with mild to moderate Speech and Hearing Disability (Hearing Impaired) who uses hearing aid.	Used in the meetings, class room and other places where one cannot listen properly.	Technology is the tool
Cochlear	While teaching any of the		The instrument	Technology is





Accessible Tools/Appliance s/Software	When to use this tool	Tools Description	How to use this tool	Tool Names
implants	NOS'S mentioned above, if it is seen that a person with hearing impairment has difficulty in hearing conversations, audio recorded voices; in that case, he/she can use this tool. The implant works on children especially during the critical years when the brain is at the stage of learning and growing so that they can be taught to understand sound and articulate the same and then get integrated in mainstream schools. It will not work for Adult hearing- impaired persons	an electronic medical device that replaces the function of the damaged inner ear.	needs to be purchased for use.	the Tool
BTE hearing aids	While teaching any of the NOS's mentioned above, if it is seen that a Persons with Hearing Impairment has difficulty in hearing conversations, audio recorded voices; in that case, he/she can use this tool. The tool can be recommended for a young person/child.	The sound from the instrument is routed acoustically or electrically to the ear.	The instrument needs to be purchased for use. (Hearing aid training is a prerequisite for use of hearing aids)	Technology is the Tool





Activity	Activity Type	When to use Activity	Activity Description	How to use tool	Activity tool
Sensitization of the Trainer	Sign Language	Hearing impaired persons are naturally inclined to this visual language and are natural 'signers'. This is yet the best a commonly used method to make all kind of trainings /meetings /services accessible to him/her.	Signs or gestures are used to communicate instead of verbal communication.	Both the parties need to know the sign language. In the training setup, better to have a sign language interpreter.	NA
Environment al Adaptability	Pictorial/Diagram matic Communication Chart	Useful tool for learning during training days. Can be recommended to all hearing-impaired persons.	Helps a speech impaired to communicate specific things using written language and pictures. A person with Speech and Hearing Disability (Hearing Impaired) can use set of options while communicating with the customer.	Need to be prepared based on the requirement and the environment.	NA
Environment al Adaptability	Hearing loop	It can be used for hearing impaired persons during meetings, events etc.	The hearing loop provides a magnetic, wireless signal that is picked up by the hearing aid when it is set to 'T' (Telecoil) setting.	The instruments need to be purchased and installed in the class rooms & labs	NA





Assessment Guidelines

Lab Assessment:

- Ensure that the lab is accessible for the Persons with Hearing Impairment with proper use of signages.
- Ensure that the equipment in the lab are clearly labelled, so that persons with hearing impairment can read and understand.
- Ensure that Sign Language Interpreter Is available during the assessment
- Ensure that the room is well lit and illuminated, especially where the Sign Language interpreter is giving instructions so that the pupils are able to clearly observe the finger movement and body language of the interpreter
- Arrangement for sitting should be in 'C' shape to ensure effective flow of instructions to the candidates via Sign Language.
- Instructions should be in written with pictures /diagrams wherever necessary
- Internet connection should be provided to each computer/laptop to enable search if required
- Extra Time, 20 minutes per hour should be provided to the candidates if the required, which can be further extended if the demand is deemed genuine.

Computer Assessment:

- Extra time should be given in case the candidate is taking time to understand text /instructions. Extra time recommended is 20 minutes per hour, which can be further extended if the demand is deemed genuine.
- The Room should be well lit. Lighting should fall on the Sign Language Interpreter for clarity of finger movement and body language
- Instructions /Text should be simple with pictures/diagrams wherever required.
- Written instructions to the candidates are permissible in case the candidate need some more clarity.
- Ensure that the Sign Language Interpreter is available during the assessment.
- The signages should be clearly labelled/pasted and visible
- The Computer should be fixed along with the wall, during assessment
- Candidates should be oriented to the digital tool in advance to avoid last minute problems.
- Internet connection is recommended for each computer/laptop, if required during the assessment
- Ensure that the questions are relevant and applicable to persons with hearing impairment. Eg. If a question appears on the tab, where a candidate with hearing impairment has been asked, how will you greet a person on call? Is not applicable for candidates with Hearing Impairment
- Questions should be multiple choice / yes No/True False, with pictures and precise instructions.
- In order to maintain fair practice, if the question sets have been designed with different sequence of questions, in this case more than one Interpreter may be required. Inform the Training Partner in advance or give extra time in case the TP is not able to manage with more than one interpreter especially in small towns and rural areas.





General Guidelines:

- Do ask questions openly. Do not assume anything. For example, ask your trainees with disabilities if they need any change in the kind of assessment setup provided. It could if the person with Speech and Hearing Disability would prefer to have normal environment or sound proof environment for better hearting conditions. This would encourage honest conversation, helping you to assess the person based on their true abilities.
- Be prepared to make your assessments person-specific. For example, there may be a person who is hard of hearing who may need no process changes to your standard assessment, while other persons who are hard of hearing may need quiet rooms. Do account for these individual needs during your assessment?
- The Assessment guidelines given below are only to enable the assessor to conduct the assessment smoothly. Adherence to the guidelines is not mandatory but preferred.
- The assessor has the option to use any of the tools appropriate from the list of tools mentioned in the expository, to conduct the assessment. He/she also has the choice to use other options that will help conduct the assessment with sanctity.
- Remember that your trainees with disabilities are going to be working on par with persons without disabilities. Pitying, belittling or lowering the standards would defeat the purpose.
- If there are any audio elements as part of the assessment, there should be alternate arrangements such as pictures or text to be given. If there are video elements, subtitling is key and sign language is preferred.
- Check on sign language compatibility between interpreter and trainees for best assessment processes. For example, within Indian Sign Language, there are many differences based on location. Further, words in Indian Sign Language (ISL) and American Sign Language (ASL) are frequently very different, and not all Persons with Speech and Hearing Disability (Hearing Impaired) may understand both. This may lead to misinterpretations.
- For person who does lip reading, it is important for you to face the person while communicating. You also need to get other details (for example, which languages they lip-read, which side they can hear better and how much enunciation they require, whether they prefer closed room discussions, or silence without background noise etc
- We strongly recommend for not having telephonic assessments. However, this may vary based on the functional assessment of the person
- Assessment through presentation should be replaced with practical's or by conducting regular interviews.
- Consider extra time because of interpreter communication take more time during assessments. Written assessment should be assessed keeping in mind that the person might have language constraints. For example, email writing task should be viewed from the point of view of email message