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INDUSTRY SPECIFIC SIGN LANGUAGE VOCABULARY

WP2

PROJECT NAME: InclusiVET: Bridging Skills and Accessibility in Vocational Training for the Hearing-Impaired

Project ID:2023-2-TR01-KA220-VET-000170645

Institutions:

YTU YILDIZ TECHNICAL UNIVERSITY

EU&PRO

LICEUL SPECIAL PENTRU DEFICIENTI DE AUZ SFÂNTA MARIA

"Επόμενη Στάση" Κοινωνική Συνεταιριστική Επιχείρηση

THE ACADEMY OF APPLIED STUDIES POLYTECHNIC

ATATÜRK MESLEKİ VE TEKNİK ANADOLU LİSESİ ANKARA 1954

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InclusiVET

KA220-VET - Cooperation partnerships in vocational education and training

InclusiVET: Bridging Skills and Accessibility in Vocational Training for the Hearing-Impaired

Project ID: 2023-2-TR01-KA220-VET-000170645

PARTNERS:

YTU YILDIZ TECHNICAL UNIVERSITY

Yıldız Technical University is one of Türkiye's leading public universities, renowned for its strong tradition of academic excellence, innovation, and research. With over 25,000 students across diverse disciplines, the university provides internationally oriented education in engineering, natural sciences, architecture, economics, and social sciences. Committed to sustainable development, interdisciplinary collaboration, and industry partnerships, YTU equips students with the knowledge and practical skills needed to contribute to technological advancement, global competitiveness, and societal transformation.

https://www.yildiz.edu.tr/

"Επόμενη Στάση" Κοινωνική Συνεταιριστική Επιχείρηση

Epomeni Stasi is a social cooperative café dedicated to promoting inclusion, solidarity, and equal opportunities for young people with disabilities. By providing a supportive work environment for deaf and hard-of-hearing youngsters, the organization encourages social integration and access to the labor market through innovative experiences such as ordering in Greek sign language. Combining responsible consumption, cultural diversity, and community engagement, Epomeni Stasi hosts accessible cultural events and supports local products while fostering multicultural dialogue and social participation. Its experienced team actively contributes to youth work, inclusion, and international cooperation through various European training programs and initiatives.

EU&PRO

Eu&Pro is a Prague-based educational and training organization with over 20 years of experience in vocational education, Erasmus+ mobility, and lifelong learning. Specializing in digital transformation, entrepreneurship, social inclusion, and environmental education, the organization develops innovative e-learning platforms, VR-based training materials, and international mobility projects. Through collaboration with universities, NGOs, municipalities, and private sector partners across Europe, Eu&Pro promotes inclusive education, cross-border cooperation, and the development of key competencies for both young people and adults.

https://www.eupro.cz/

THE ACADEMY OF APPLIED STUDIES POLYTECHNIC

Academy of Applied Studies Polytechnic is a respected public higher education institution offering more than 30 study programs in technical, technological, artistic, medical, and socio-humanistic fields. With a strong focus on academic excellence, innovation, and lifelong learning, the Academy equips over 3,500 students with contemporary knowledge, practical skills, and professional competencies through accredited vocational, specialist, and master programs. By fostering close cooperation with national and international institutions as well as industry partners, the Academy promotes creativity, research, and hands-on experience, preparing graduates to contribute to societal development and succeed in dynamic global labor markets.

www.politehnika.edu.rs

SFÂNTA MARIA

St. Mary High School for Hearing Impaired is a public special education institution in Bucharest providing inclusive education and support for children and young people with hearing impairments and associated disabilities. Offering preschool to high school education, including unique vocational training in Printing Techniques and Tourism & Food, the school combines academic excellence with practical skill development. Equipped with modern educational facilities and supported by experienced special education professionals, the institution actively promotes equal opportunities, innovation, and international collaboration through Erasmus+ and eTwinning projects.

www.scoalasurzi2bucuresti.ro

Altındağ Vocational and Technical Anatolian High School is a well-established vocational education institution providing high-quality technical and professional training since 1954. With modern workshops, laboratories, and specialized learning facilities, the school offers education in fields such as Information Technologies, Machinery, Electrical and Electronics, Metal Technologies, Furniture Design, and Special Education for hearing-impaired students. Combining academic excellence with practical experience, cultural activities, and sports, the institution aims to educate creative, skilled, and socially responsible individuals prepared for higher education, industry, and lifelong learning.

https://ametal.meb.k12.tr/

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WP2:
Material Development

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EXECUTIVE SUMMARY

This report presents a Vocational Unified Sign Language Vocabulary developed to support communication, inclusion, and workplace safety for hearing-impaired individuals in vocational education and industrial sectors. The glossary provides standardized sign language terminology and explanations for technical fields such as metalworking, woodworking, typography, and workplace safety. Its main purpose is to improve accessibility, strengthen professional training, and ensure effective communication between educators, trainers, and workers in industrial environments.

The document begins with foundational workplace communication, including greetings, introductions, job titles, and common workplace instructions. These basic expressions create a foundation for daily interaction and collaboration in vocational settings. The report then introduces industry-specific vocabulary related to tools, machinery, materials, and production processes used in different technical professions.

In the metalworking section, the glossary includes terms connected to welding, drilling, cutting, polishing, measuring instruments, and machine operation commands. Detailed explanations and sign language video links are provided for technical processes such as TIG welding, soldering, hot forming, and technical drawing. The woodworking section focuses on tools, materials, and construction techniques including saws, routers, plywood, sanding, staining, and woodworking joints. Additionally, the typography industry section introduces terminology related to printing, bookbinding, lamination, screen printing, and publishing technologies.

A major focus of the report is workplace safety and emergency communication. The glossary explains important safety instructions, protective equipment requirements, hazard warnings, and emergency response vocabulary. Terms such as “wear gloves,” “high voltage,” “evacuate,” and “medical emergency” are included to help create safer and more inclusive work environments for hearing-impaired employees.

Overall, this glossary promotes equal participation in vocational education and industrial employment by reducing communication barriers. By standardizing vocational sign language terminology, the project contributes to safer workplaces, more effective training, and stronger social inclusion for hearing-impaired individuals in technical professions.

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1. Introduction

TThis Vocational Unified Sign Language Vocabulary is designed to serve as a structured guide for the standardization and practical application of sign language within vocational education and industrial work environments. It aims to provide a comprehensive reference for educators and trainers working with hearing-impaired individuals in technical fields such as metalworking, woodworking, and other industrial sectors. By establishing consistent and widely accepted sign language terminology, this manual ensures effective communication, enhances workplace integration, and facilitates skill development in professional settings.

2. Foundational Sign Language for Vocational Training

Effective workplace communication is essential for safety, collaboration, and efficiency. This section outlines fundamental vocabulary used in vocational training and industry settings.
Greetings and introductions are commonly used in a professional or workplace setting for initial communication:

- **Hello/Hi:** Basic greetings used to acknowledge someone's presence.
- **Good morning/afternoon/evening:** More formal greetings depending on the time of day.
- **My name is...:** A way to introduce oneself in a professional context.
- **Nice to meet you:** A polite response after introductions.
- **How are you?:** A common way to inquire about someone's well-being.

Common workplace instructions are used to communicate basic tasks and instructions in the workplace:

- **Start work:** Begin the tasks or operations assigned.
- **Stop:** Cease activity or action immediately.
- **Break time:** Time allocated for rest during working hours.
- **Help needed:** A call to ask for assistance or support in completing a task.

Basic job titles represent common positions in many workplaces:

- **Supervisor:** A person who oversees and manages the work of others.
- **Technician:** A professional who operates or maintains equipment or systems.
- **Trainer:** An individual responsible for teaching others the necessary skills or knowledge for their job.

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3. Industry-Specific Sign Language for Metalworking

This section focuses on specialized vocabulary related to metalworking tools and processes, ensuring that communication can occur effectively in a noisy or hazardous environment, especially for hearing-impaired workers.

Tools:

- **Hammer:** A tool used for striking objects or driving nails.
- **Wrench:** A tool used to tighten or loosen bolts and nuts.
- **Pliers:** A tool used for gripping, bending, or cutting wires and other materials.
- **Screwdriver:** A tool used to turn screws.
- **Drill:** A power tool used to bore holes in various materials.
- **Grinder:** A power tool used for grinding, polishing, or shaping materials.
- **Welder:** A tool or person responsible for fusing metal parts together by heating them to a molten state.
- **Cutting torch:** A tool that uses a flame to cut through metal.
- **Calipers:** A tool used to measure the distance between two opposite sides of an object.
- **Micrometers:** A precision instrument used to measure small dimensions with high accuracy.
- **Rulers:** A tool for measuring lengths or distances.
- **Gauges:** Instruments used to measure the thickness or other dimensions of a material.

Materials:

- **Sheet metal:** Thin, flat pieces of metal used in various metalworking processes.
- **Aluminum:** A lightweight, corrosion-resistant metal commonly used in manufacturing.
- **Steel:** A strong metal alloy made primarily of iron and carbon, used for construction and manufacturing.
- **Iron:** A heavy, strong metal used in construction and machinery.
- **Copper:** A highly conductive metal often used in electrical applications.

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Industrial Processes and Procedures:

- **MIG welding:** A type of welding using a wire feed and shielding gas for metal fusion.
- **TIG welding:** A precise welding method using a non-consumable tungsten electrode.
- **Arc welding:** A process that uses an electrical arc to melt and join metals.
- **Cutting:** The process of separating material into smaller parts, often with tools like saws or lasers.
- **Grinding:** The process of smoothing or shaping material by rubbing it with a rough surface.
- **Polishing:** The process of making a material smooth and shiny, typically using abrasives.
- **Drilling:** The process of creating holes in materials, typically with a drill bit.
- **Threading:** Creating spiral grooves in a material, usually to accept a bolt or screw.
- **Assembling:** The process of putting together parts or components to form a product.

Terminology	Definition	English Sign Language Translation
Tapping on metals	The process of cutting internal threads in a pre-drilled hole using a tap tool, allowing screws or bolts to be inserted securely.	https://www.youtube.com/watch?v=Nk1SnfdctOQ
Fillet weld	A type of weld that joins two metal pieces at a right angle, creating a triangular cross-section for added strength.	https://www.youtube.com/watch?v=lPM4VGRXvpE
Soldering	A low-temperature joining process where a filler metal (solder) is melted to bond metal components without melting the base metals.	https://www.youtube.com/watch?v=l6i1gXSjVI8
Metal drilling	The process of creating holes in metal using a drill bit, typically with a drill press or hand drill, often requiring lubrication to reduce heat.	https://www.youtube.com/watch?v=bRhte-FMBtc

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Terminology	Definition	English Sign Language Translation
Bending metals	A forming process that deforms metal into a desired shape without cutting, often performed with a press brake or rolling machine.	https://www.youtube.com/watch?v=dwrXt-r2Sfc
Hardening metals	A heat treatment process that increases the hardness and strength of metal by heating and then rapidly cooling (quenching) it.	https://www.youtube.com/watch?v=QHQl2X6ZUk4
Spot resistance welding	A welding technique where two metal surfaces are joined by applying pressure and passing an electric current through them, creating localized welds.	https://www.youtube.com/watch?v=aWKZOqFvavk
Oxy acetylene welding	A gas welding process that uses a flame from burning oxygen and acetylene gas to heat and fuse metal parts together.	https://www.youtube.com/watch?v=rMhJo7tV6nk
Core electrode	A type of electrode with a metal core surrounded by a coating that provides shielding gas and slag during welding.	https://www.youtube.com/watch?v=WE5x3kJlEhA
Stainless welding	A specialized welding process used to join stainless steel, often requiring specific electrodes or shielding gases to prevent contamination.	https://www.youtube.com/watch?v=MoTxOD1y-p8
Radius	The distance from the center of a curved metal piece to its outer edge, commonly used in bending and shaping operations.	https://www.youtube.com/watch?v=r6h5inazSlM
Cellulose electrode	A welding electrode coated with cellulose-based material, producing a deep penetrating arc and used for vertical and overhead welding.	https://www.youtube.com/watch?v=uzlnf2HKdL0
Hot forming	A metal shaping process performed at high temperatures to make the material more malleable and reduce stress during deformation.	https://www.youtube.com/watch?v=-mSoeBQ7JGA

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Terminology	Definition	English Sign Language Translation
Cold forming	A metal shaping process done at or near room temperature, which improves strength and hardness while maintaining material properties.	https://www.youtube.com/watch?v=z1lOStPLLO4
Ceiling weld	A type of overhead weld performed on surfaces above the welder, requiring special techniques to control molten metal and avoid drips.	https://www.youtube.com/watch?v=U7WUOub8PY8&pp=0gcJCd8KAYcqIYzv
Technical drawing	A detailed and precise representation of a metalwork design, showing dimensions, materials, and manufacturing instructions.	https://www.youtube.com/watch?v=870Rownytqw
TIG welding	A precise welding process that uses a tungsten electrode and inert gas (like argon) to produce clean, high-quality welds.	https://www.youtube.com/watch?v=OpGKTRzA2wg
Submerged arz welding	A high-efficiency welding process where the arc is submerged under a layer of granular flux, reducing spatter and improving weld quality.	https://www.youtube.com/watch?v=ez81NjvnMmA
Three wiew drawing	A type of technical drawing that presents an object from three different perspectives (top, front, and side) to fully describe its shape and dimensions.	https://www.youtube.com/watch?v=pbgzyEgyOV4

Machine Operation Commands:

- **Start machine:** A command to begin the operation of machinery.
- **Adjust speed:** A directive to modify the speed at which a machine operates.
- **Shutdown:** A command to turn off or cease the machine's operation.

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4. Industry-Specific Sign Language for Woodworking

This section includes standardized signs for common woodworking tools, machinery, and processes, designed to help hearing-impaired individuals communicate effectively in woodworking environments.

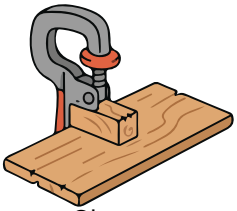
Tools:

- **Saw:** A tool with a toothed blade used for cutting wood or other materials.
- **Chisel:** A tool with a sharp-edged blade, used for carving or shaping wood.
- **Mallet:** A hammer-like tool with a large, soft head, used for driving tools such as chisels without damaging them.
- **Clamps:** Tools used to hold pieces of wood or materials tightly together while gluing, cutting, or finishing.
- **Square:** A tool used to ensure right angles or to measure and mark lines at 90 degrees.
- **Circular Saw:** A power saw with a toothed or abrasive disc or blade that rotates around an arbor, used for cutting wood, plastic, or metal.
- **Router:** A power tool used for hollowing out an area in wood or other materials, often used for edge profiling and detailed work.
- **Planer:** A power tool used to smooth or flatten wood surfaces by shaving off thin layers.
- **Lathe:** A machine that rotates wood or metal, allowing the operator to carve or shape it by pressing tools against it.
- **Drill Press:** A stationary machine that drills precise holes in materials like wood, metal, or plastic.
- **Tape Measure:** A flexible tool used to measure length or distance.
- **Marking Gauge:** A tool used for measuring and marking consistent widths or depths on wood.
- **Spirit Level:** A tool used to check the horizontal or vertical alignment of surfaces.

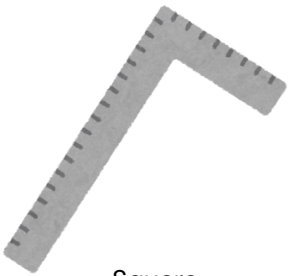
Saw

Chisel

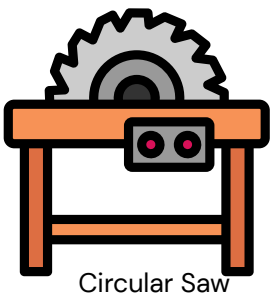
Mallet



Clamps



Square



Circular Saw

Rauter

Drill Press

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Materials:

- **Plywood:** A type of engineered wood made from thin layers of wood veneer glued together, used in construction and furniture making.
- **Hardwood:** Wood from deciduous trees, known for being durable and strong, often used in furniture and cabinetry.
- **Softwood:** Wood from coniferous trees, lighter and easier to work with than hardwood, commonly used for construction.
- **Veneer:** Thin slices of wood that are often applied to the surface of cheaper wood to improve its appearance.
- **MDF (Medium Density Fiberboard):** An engineered wood product made from compressed wood fibers, commonly used for furniture and cabinetry.

Woodworking Processes and Techniques:

- **Cutting:** The process of dividing wood or other materials into smaller pieces using various saws.
- **Sanding:** The process of smoothing wood surfaces using abrasive materials like sandpaper or power sanders.
- **Assembling:** Putting together different wood pieces to create a finished product, often involving gluing, nailing, or screwing.
- **Dovetail Joint:** A woodworking joint used to connect two pieces of wood, characterized by interlocking shapes resembling tails and pins.
- **Mortise and Tenon:** A traditional woodworking joint where a "tenon" (a protruding end of one piece) fits into a corresponding "mortise" (a hole in the other piece).
- **Finger Joints:** A type of joint where the ends of two pieces of wood are cut into interlocking "fingers" to form a strong connection.
- **Staining:** The process of applying a colored solution to wood to enhance its appearance and highlight the grain.
- **Painting:** The application of paint to wood surfaces for both aesthetic and protective purposes.
- **Varnishing:** The application of a clear or tinted finish to wood to enhance its appearance and protect it from damage.

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5. Typography Industry

Terminology	Definition	English Sign Language Translation
Assembled/ assembly	The process of putting together different components of a printed product, such as pages, covers, or inserts, before binding.	https://www.youtube.com/watch?v=5XmrKzlQ7qE
Filling agents	Substances added to paper or ink to improve quality, such as opacity, brightness, or texture.	https://youtu.be/MyDPPfSsZTM
Wrapping	The process of enclosing printed materials in paper, plastic, or other packaging for protection or presentation.	https://www.youtube.com/watch?v=Uc449OtzMJw
Assembly	The process of arranging and combining parts of a publication before finishing and binding.	https://www.youtube.com/watch?v=njXhmS2WKUs
Paper bale	A large, compressed bundle of paper, typically used for recycling or bulk storage.	https://www.youtube.com/watch?v=k_HB8IHlNv4
Scoring	The mark drawn on cardboard by pressing to facilitate subsequent folding	https://www.youtube.com/watch?v=xObRZrNzEBQ
Book block	The process of making a crease in paper or cardstock to facilitate folding without cracking	https://www.youtube.com/watch?v=Plp-35Fv7E8&pp=0gcJCd8KAYcqIYzv
Capitalband	The collection of pages (or signatures) of a book before it is bound with a cover.	https://www.youtube.com/watch?v=tTi7R-rcKfc
Bound book	A book that has been assembled and secured with a cover through a binding process.	https://www.youtube.com/watch?v=-uxGB1AleZI
Cardboard	A thick, stiff paper-based material used for covers, packaging, or backing in bookbinding.	https://www.youtube.com/watch?v=62-_4nHPa4O

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Terminology	Definition	English Sign Language Translation
Paper waste	Scraps, trimmings, or defective sheets generated during the printing and binding process.	https://www.youtube.com/watch?v=DLd-YVse05k&pp=0gcJCd8KAYcqlYzv
Desktop publishing	The creation of documents using software for designing layouts, combining text, images, and graphics before printing.	https://www.youtube.com/watch?v=xprwF_MkMME
Seaming	The process of joining or reinforcing the edges of materials (such as book covers or packaging) to improve durability.	https://www.youtube.com/watch?v=N5wprWPstQM
Technological sheet	A document that outlines technical specifications for a printing job, including paper type, ink usage, layout, and finishing details.	https://www.youtube.com/watch?v=7UJYAW2cVXg
Flyleaf	A blank sheet of paper, white or colored, used to connect the book block and the covers	https://youtu.be/mv0HGiwuy0g
Offset paper	A type of uncoated, high-quality paper used in offset printing, suitable for books, brochures, and newspapers.	https://www.youtube.com/watch?v=OsJx4DPRaXs
Intertwined	A term referring to materials or designs that are woven or interlocked for aesthetic or structural reasons.	https://www.youtube.com/watch?v=nn9wL9cg_pO
Printing	The process of reproducing text and images on paper or other materials using a press or digital means.	https://www.youtube.com/watch?v=mbw9TxcroDY
Gluing	The process of applying adhesive to secure pages or components in bookbinding or finishing.	https://www.youtube.com/watch?v=KUfYc-IAU7g

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Terminology	Definition	English Sign Language Translation
Interleaving	The insertion of blank or special sheets between printed sheets to prevent smudging, improve presentation, or add functionality (e.g., carbon paper).	https://www.youtube.com/watch?v=HBCbQxQ_IHg
Varnish / lacquer	A protective or decorative coating applied to printed materials to enhance durability and appearance.	https://youtu.be/edhrdaYa6mY
Lamination	The process of covering printed materials with a thin plastic film to improve strength and resistance to damage.	https://youtu.be/R8TJ-_dOPkM
UV lamp	A light source used in UV printing and curing to dry inks, coatings, or varnishes instantly.	https://youtu.be/GMVZ9zKOKI0
Binding	The process of joining pages together to create a finished book or booklet.	https://youtu.be/oPfnSQAeNyg
Printing layout imposition	The arrangement of pages on a print sheet to ensure correct ordering and efficient use of materials during printing.	https://youtu.be/6HP_FvzJm5g
Assembly / mounting	The process of putting together printed components, such as posters, signs, or book parts, onto a final surface or frame.	https://youtu.be/ZM5MtuGedCU
Sample	A test print or prototype used to check quality before mass production.	https://youtu.be/ENjLf4otjL8
Negative	A reversed image or film used in traditional printing to transfer ink onto a printing plate.	https://youtu.be/vtgTCz2gV4o

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Terminology	Definition	English Sign Language Translation
Pallet	A platform used to store and transport large stacks of printed materials or paper.	https://youtu.be/zq_UjcB1t_0
Rotary press	A printing press that uses rotating cylinders to print on continuous rolls of paper, commonly used for newspapers and high-volume production.	https://www.youtube.com/watch?v=SWtimjdp6n0
Resolution	The clarity or sharpness of printed images, measured in dots per inch (DPI). Higher resolution results in sharper images.	https://www.youtube.com/watch?v=lbGmYHNVm2k
Paper roll	A large roll of paper used in continuous-feed printing processes.	https://www.youtube.com/watch?v=BCYCS_wm2pU
Screen printing	A printing technique where ink is pushed through a mesh screen onto a surface, commonly used for textiles, posters, and specialty prints.	https://www.youtube.com/watch?v=NuCLQj9Okw8
Verso (back) of the left-hand page	The left-hand page of an open book or publication, typically numbered with even numbers.	https://www.youtube.com/watch?v=M_6718gkKMo

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6. Workplace Safety and Emergency Communication

Understanding and using proper safety signs in the workplace is critical to ensuring the safety and well-being of employees, especially in environments that involve hazardous materials, equipment, or processes. This chapter focuses on key communication terms that are vital for promoting safety and managing emergencies.

Safety instructions indicate the necessary personal protective equipment (PPE) that should be worn to prevent injury and exposure to hazards:

- **Wear Gloves:** A sign instructing workers to wear gloves to protect their hands from cuts, chemicals, heat, or other hazards.
- **Wear Mask:** A sign advising workers to wear masks (often dust masks, respirators, or surgical masks) to protect against inhaling harmful particles, fumes, or pathogens.
- **Use Ear Protection:** A reminder for workers to wear earplugs or earmuffs to protect their hearing from excessive noise, which can cause long-term hearing damage or hearing loss.
- **Use face shields:** Instructions to wear shields to protect the face from flying debris.
- **Maintain proper ventilation**: A warning to ensure that air circulation is adequate to prevent inhaling harmful fumes.
- **Protective eyewear required:** A directive to wear glasses or goggles to protect eyes from debris or chemicals.

Equipment handling warnings are used to warn workers about potential hazards related to equipment or machinery:

- **Hot Surface:** A sign indicating that a surface or part of the machine is hot and could cause burns or injury if touched.
- **High Voltage:** A warning that electrical equipment or machinery operates at high voltage and poses a risk of electrical shock or electrocution.
- **Sharp Objects:** A warning that certain materials or machinery contain sharp edges, such as knives, blades, or metal sheets, which can cause cuts or punctures.

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Emergency instructions are essential in guiding employees on what actions to take in case of an emergency:

- **Fire:** Indicating a fire hazard or emergency situation.
- **Danger:** Warning about a potential threat or hazard.
- **Stop immediately:** A command to halt activity right away to avoid harm or damage.
- **Evacuate:** A command instructing workers to leave the area immediately due to a potential or ongoing emergency, such as a fire or gas leak.
- **Fire Drill:** A reminder or instruction to participate in a practice evacuation, simulating a real fire emergency to ensure preparedness.
- **Medical Emergency:** A warning indicating that immediate medical assistance is required due to an injury, illness, or other health-related situation.
- **Seek Medical Help:** An instruction advising the individual to get professional medical attention for an injury or illness that requires medical intervention beyond basic first aid.
- **Apply Pressure to Wound:** A common first aid instruction to apply direct pressure to a bleeding wound to control blood flow and prevent excessive blood loss before help arrives.

7. Conclusion

This glossary was prepared with the purpose of ensuring workplace safety and enabling effective responses in emergencies. Understanding and using the correct vocabulary for protective gear signs, emergency instructions, equipment handling warnings, and first aid communication is essential for preventing accidents, minimizing risks, and promoting swift responses in the event of an emergency. Standardized sign language and clear communication are especially crucial in environments with hearing-impaired individuals, ensuring everyone can work safely and efficiently. By prioritizing safety and emergency communication, organizations can create a more secure workplace and support the well-being of all employees.

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