Slips, Trips and Falls for Construction

Most slips, trips, and falls can be prevented by simply practicing good safety habits.

Definitions

Term	Definition
Slip	A loss of balance caused by too little friction between a person's foot/feet and his/her walking surface
Trip	A loss of balance caused by the interruption of the movement of a person's foot by an obstacle
Same-level fall	A slip and fall, trip and fall, or step and fall. Occur more often than elevated, but are associated with fewer and less serious injuries.
Elevated fall	A fall from any distance, such as from a ladder, down stairs, off equipment, or from docks, trees, roofs or other height. Occur less often than same-level, but are associated with more serious injuries.

Fall Hazards

Causes of Slips and Trips

The following are just some examples of items in the workplace that can cause slips:

- Water
- Mud
- Grease/Oil
- Leaves and pine needles
- Food
- Dust

- Plastic wrapping
- Highly polished floors
- Loose floorboards or tiles
- Metal surfaces
- Mounting/dismounting vehicles/equipment
- Transitioning from one surface to another

Examples of trip hazards include:

- Clutter
- Tools
- Cords, cables, hoses in walkways
- Obstacles in aisles and walkways
- Changes in elevation or levels
- Irregularities in walking surfaces
- Missing or uneven floor tiles or bricks
- Non-uniform or irregular steps

Housekeeping and Equipment

Housekeeping and improper equipment use can cause slips and trips:

- Poor housekeeping
 - o Items on the ground or on steps
 - o Spilled liquids or water
- Inadequate/bad lighting
 - o Too dark
 - Glare

- Improper or careless use of equipment
 - o Ladders, scaffolds, vehicles, etc.
 - Wearing the wrong shoes

Bad Habits

Bad habits can cause slips and trips:

- Carrying objects that obstruct view
- Not using handrails
- Moving too fast to avoid hazards
- Taking shortcuts
- Being distracted

Protect Yourself

What can you do to avoid the causes of slips, trips and falls?

- · Keep work areas neat
 - Eliminate clutter from aisles
 - Keep floors clean and dry
 - Maintain drainage, using gratings or raised platforms
 - Use caution signs on wet floors
 - Use boot brush stations
 - Eliminate protruding nails, splinters or loose boards
 - Take care when using cords
 - Block off or mark hazardous areas
- Keep work areas well-lit
 - Avoid lighting that's too dark or too bright
 - o Keep work areas, stairs and aisles well-lit
 - Avoid wearing sunglasses indoors
- Use equipment correctly
 - o Know the:
 - Weight of the equipment and materials you will be using
 - Location of skylights and floor hole covers
 - Load capacities of structures
 - When working at heights, watch out for electrical lines, moving equipment and unguarded mechanical parts
- Develop good habits

Ladders

To avoid slips and trips related to ladders:

- Use the right ladder for the job
- Do not use makeshift ladders such as barrels, boxes or sawhorses
- Follow these guidelines when climbing or descending:
 - Only one person should be on a ladder at a time
 - Always face toward the ladder when climbing up or down
 - Keep your belt buckle area between the side rails to avoid over-leaning
 - Use both hands when climbing or descending
 - Never carry anything in your hands
 - Use three points of contact (two hands, two feet equals four points)
- If a ladder is required as part of your job, you must have ladder safety training
- Ladders should be placed with a secure footing and should be lashed or held in position

- Ladders used to gain access to a roof or other area should extend at least 3 feet (0.9 meters) above the point of support
- Place the base of extension or straight ladders 1/4 of the working length of the ladder away from the base of the structure
- Ladders should never be used in the horizontal position as scaffolds or work platforms
- Never use metal ladders near electrical equipment

Stepladders should be equipped with a metal spreader or locking device of sufficient size and strength to securely hold the front and back sections in the open position

- All ladders should be maintained in good condition
- They should be inspected frequently and before each use
- If you find a defect:
 - o Tag it out of use
 - Secure or lock it up so others can't use it
 - o Report it to maintenance or your supervisor

Scaffolding

There are different types of scaffolds, each with their own regulations and requirements. Some of the general requirements that apply to all scaffolds are:

- The footing or anchorage for scaffolds must be sound, rigid and capable of carrying the maximum intended load without settling or displacement
 - Unstable objects, such as barrels, boxes, loose brick or concrete blocks, must not be used to support scaffolds or planks
- Scaffolds and their components must be capable of supporting at least 4 times the maximum intended load
- Scaffolds must be maintained in a safe condition and must not be altered or moved horizontally while they are in use or occupied
- Damaged or weakened scaffolds must be immediately repaired and cannot be used until repairs have been completed
- A safe means must be provided to gain access to the working platform level through a ladder, stairs or a ramp.
- Overhead protection must be provided for personnel on a scaffold exposed to overhead hazards
 - Guardrails, midrails and toeboards must be installed on all open sides and ends of platforms more than 10 feet (3 meters) above the ground or floor
 - Wire mesh must be installed between the toeboard and the guardrail along the entire opening, where persons are required to work or pass under the scaffolds
- Employees must not work on scaffolds during storms or high winds or when scaffolds are covered with ice or snow

Stairs

Because you use stairs so regularly, you may take them for granted, but in fact, a large number of slips, trips and falls occur on stairs.

- Look where you are going
- Make sure you can see around what you're carrying
- Take one step at a time never skip steps
- Hold handrails
- Keep steps clean and dry

If You Fall

- Try to keep your wrists, elbows and knees bent
- Do not try to break the fall with your hands or elbows
- It is better to land on your arm than on your head
- It is better to land on your buttocks than on your back