Susan Harwood Training Program Grant

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Fall Hazard Awareness

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Objectives

- After this module you should be able to
 - identify the most common fall hazards
 - take the steps necessary to avoid those hazards

Fall Prevention and Protection

- Falls can be the result of
 - unprotected sides or edges
 - trips or slips
 - improper ladder use
 - much more
- Fall prevention examples
 - guardrails
 - hole covers
- Fall protection examples
 - personal fall arrest systems (PFAS)
 - safety nets
- Fall protection (which includes prevention and protection) is required at 4' for general industry and 6' for construction

Fall Hazards

- Uneven working surfaces
- Unprotected sides and edges
- Ladders
- Open pits
- Climbing and working from the derrick
- Working off the bed of trucks
- Floor holes
- Stairs
- Getting on and off mobile equipment
- Equipment, materials, lines, etc. on rig floor or ground

uneven walking/working surface

Corrective Action: inform your supervisor that a potential for falls exists here

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walking surfaces can get slippery from oil spills during maintenance activities

Corrective Actions: keep walking surfaces as clean as possible; spread something down for traction

a pallet used in place of a ladder

Corrective Action: use only approved ladders

employee climbing a step ladder that is not set up right

Corrective Action: set up step ladder properly or use an extension ladder

even a good set of stairs with stair rails can be the site of a fall

Corrective Actions: 3 points of contact; walk; clear and clean; carry only light loads; do not jump last few steps

the v-door opening is a fall hazard if not properly guarded

> a gate or barrier like this one must be installed when the opening is not in use

employees working on trailer with no means of fall protection

worker without fall protection with possible fall of 18'

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Corrective Action: install a guardrail or use a PFAS

employee using the landing of a set of stairs as a working surface

Corrective Action: install a swinging gate (that meets guardrail requirements) on the stair opening

reserve pit fence down during frac job with a potential for fall into pit

Corrective Action: maintain reserve pit fences after rig leaves and until reclamation

due to the slickness and slope of the plastic, a fall into the pit can occur, likely resulting in a worker drowning

it is strongly recommended that a harness and tag line be worn by the entrant at all times in case a rescue needs to be made

if a worker falls into the fence, that worker still might fall into the pit

Corrective Action: set fence back at least 6' from edge of pit

tive Action: use a PFAS with ble anchor point

worker climbing the derrick of a service rig without fall protection



work practices like these often end in tragedy for the worker and his family

Corrective Actions: never stand on forks or use makeshift baskets; always use proper lift baskets and a PFAS



a worker can be thrown from or fall out of the basket of an aerial lift

always wear a PFAS while in the basket; attach PFAS to a suitable anchor point

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Corrective Action: inform your supervisor that a potential for falls exists here

a gap in the guardrail system



a floor hole that can cause a trip; materials can fall through and strike a worker below

Corrective Action: always replace covers over holes in rig floor when not in use

this opening can sneak up on a worker when walking backwards directing a load into position

Corrective Actions: place a cover over this opening

this is another example of a fall hazard

Corrective Action: cover the rest of the hole or cover entire hole with a larger grate

hoses and other equipment left on the rig floor are tripping hazards

Corrective Action: tuck away to prevent tripping or return to storage after use

cables can cause a trip if a worker forgets or doesn't know where they are

yellow caution tape was used here to indicate that there is a trip hazard

running on site is just not necessary

Corrective Action: walk, don't run

Your Employer Is Responsible For

- Providing and maintaining safe access
- Making sure that there are no unguarded surfaces 4 feet or more in height
- Providing a personal fall arrest system (PFAS), training on and ensuring its use
- Responding to and correcting hazards pointed out by you, the worker

You Are Responsible For

- Inspecting your work area for fall hazards
- Following all fall protection procedures your company has in place including wearing a personal fall arrest system (PFAS)
- Correcting the hazards you are able to correct
- Reporting to your supervisor the hazards you are unable to correct

Case Study

 Fall from derrick board: a worker grabbed the elevator and held on for a few minutes but then let go, grasping a 4.5" vertical pipe. The worker slid partially down the pipe joint until he reached the pipe collar from where he fell about 65'.



Always Remember

- Always use your fall protection when above 4'
- Keep walking/working surfaces as clean and clear as possible
- Walk, don't run
- Cover floor holes when not in use
- Report any concerns to your supervisor

Memory Check

- Fall protection is required at how many feet or more for general industry?
 - a. 4
 - b. 10
 - c. 12
 - d. 15

Memory Check

- 2. What is a PFAS?
 - a. Personal Fall Ascent System
 - b. Partial Fall Ascent System
 - c. Personal Fall Arrest System
 - d. Partial Fall Arrest System

Memory Check

- 3. When ascending and descending a ladder or stairs, at least how many points of contact must you maintain?
 - a. 1
 - b. 2 c. 3
 - d. 4