



Arab Fertilizer Association Knowledge Sharing Template



Welder technician got electric shock from the grinding machine which was being used to attend the sea water leak, under water splashing. He also got laceration wound on his left thigh while the grinding machine slipped from his hand due to electric shock.

Pictures/Drawings



Water entered from the grinding machine vent point



Water Leak

Lessons Learned

1. Conduct Job Safety Analysis for critical activities such as grinding job under water splashing.
2. Pneumatic tools shall be used while attending online leaks and if suspected water leak.
3. Conduct tool box meeting covering relevant job hazards.
4. Enforce proper supervision during job.
5. Do not use improper or repaired electrical cable.
6. Inspect the tools to be used.

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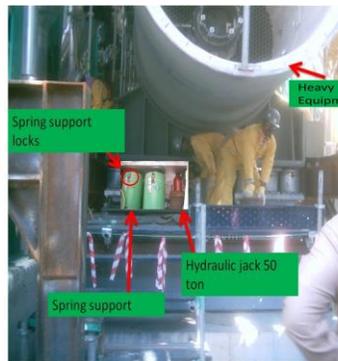
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Description of the event:

While lifting heavy equipment, the spring support locks (tailor made slim metal) became loose and projected towards a contractor fabricator's face and hits his safety glass.

Pictures/Drawings



Lessons Learned

1. Procedures shall be followed, and any change in procedure shall be in consultation with QAFCO responsible team only.
2. Before conducting any critical activity such as lifting of heavy equipment, Task Risk assessment and Job safety analysis shall be done.
3. Special care shall be taken during dealing with spring support in order to avoid such incident in the future.

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Description of the event:

Maintenance of Roll crusher was carried out. While checking the belt tension by QAFCO Mechanic another mechanic rotated the rollers manually to check free rotation. It was highlighted that the glove worn by him got caught in between the pulley and drive belt and dragged his finger inside. He got fractures in both index finger and middle finger of his right hand.

Pictures/Drawings



This incident happened on 15th Feb 2013 in Urea-5.

Lessons Learned

1. Equipment shall not be operated manually while persons are still working at the machine. The importance of good coordination was highlighted to assure that this kind of incidents will not occur in the future.
2. Qafco has recently ordered Special Type Gloves (Ansell-11-618) to be used for precision work.

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Description of the event:

While disengaging an empty long bed trailer from a forklift, by removing the towing pin, the right index finger caught in between the pin due to movement of the trailer which was not secured.

Pictures/Drawings



Lessons Learned

1. All trolleys must be secured by wheel stoppers prior to disengagement of the pin.
2. Convey information to fork lift drivers on safe disengagement of trolleys or other mobile equipment that are towed using forklift and ensure that it is part of tool box talk.

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Description of the event:

Contractor technician got cut injury on his right knee by a grinder as he was receiving a light duty grinder from his fellow co-worker while its grinding wheel was still rotating.

Pictures/Drawings



Lessons Learned

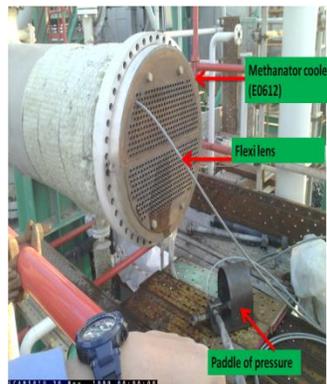
1. To make sure that the grinder wheel shall be stopped totally before hand over / stationed in the floor.
2. The person shall be alert and cautious, especially when he deals with sharp tools.
3. Effective tool box to be carried out and potential hazard to be identified before starting any task.
4. Supervisors shall assure that the tool is in good condition and can be used in safe way.

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Description of the event:

While HP cleaning on methanator cooler (E0612), technician forgot to release the paddle of pressure foot valve while taking out the flexi lens nozzle from tube to tube, resulted the tip of flexi lens touched his neck.

Pictures/Drawings



Lessons Learned

1. Contractor HP skills to be checked at QAFCO site before starting the jobs.
2. Before working in HP cleaning job, contractor must submit third party certification of technicians.
3. Improve the selection process for HP cleaning contractors.
4. Ensure proper rest provided.
5. Increase supervision from contractor side.
- 6.

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Description of the event:

The cation exchanger column in the sample handling system burst and hot water splashed over the Neck and Face area of Qafco technician, causing second degree Burns

Pictures/Drawings



Lessons Learned

1. Design parameters shall be reviewed to confirm the adequacy of the system when modifications are carried out.
2. Requirement of Preventive Maintenance Schedule for components in sub systems to be considered.
3. Refresher training needs to be identified and imparted at regular intervals.
4. Assess the need of additional PPEs while working on high pressure and temperature

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systems.

injury

Description of the event:

While Contractors were bringing down scaffolding metal plank from 7 Meter floor to the ground level (manually transferred from one person to another person), one metal plank slipped and hit two scaffolders, who were working on the ground level & on 2 mtr height on scaffolding platform.

Pictures/Drawings



Wrong Method (standing under hanging load)



Right Method (standing below scaffolding platform)



Wearing helmet protected them from bad

Lessons Learned

1. Effort shall be made to find industrial best practices to conduct such type of job.
2. Proper supervision & tool box meetings shall flag out any hazards or unsafe conditions while the job is in progress.
3. Ensure to wear helmet while working

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Description of the event:

While opening spool piece (121.E0401) using pneumatic wrench, suddenly hose came out from jubilee clamp and hit left leg of the contractor.

Pictures/Drawings



Shank length too short to have two clamps



Lessons Learned

1. Tool store to ensure inspection of material issued (prior to issue and on receiving from end user).
2. Keep record and serial no. for traceability.
3. Inspection of tools by executor prior to start of work to ensure their integrity.
4. To explore the new type of clamp to replace the jubilee clamp.

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Description of the event:

During scaffolding erection work at ground level, suddenly one socket nut (65mm bolt size, 3 kg weights) fell down from 15 meters height and hit the safety helmet of a mechanic working on suspended scaffolding platform.

Pictures/Drawings



Lessons Learned

1. When high elevation jobs are carried out on suspended platform, the area below has to be barricaded with appropriate warning signs.
2. When permits are issued, hazards from jobs that are being carried out in the close vicinity need to be addressed and vice-versa.
3. Appropriate use of PPE can help limit the consequence on exposure to an incident.
4. Prior to starting a job look around the area to detect any hazard from the activity.
5. Importance to conduct adequate tool box meeting.

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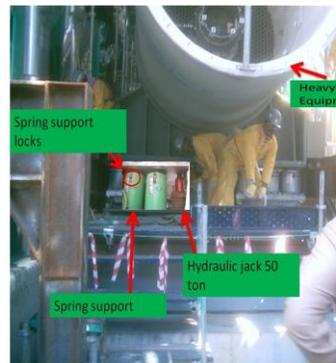
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