NEBOSH

MANAGEMENT OF HEALTH AND SAFETY

UNIT IG1:

For: NEBOSH International General Certificate in Occupational Health and Safety

Open Book Examination

ANSWER TEMPLATE

Available for 24 hours

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Task 1: Managing the contractor on site

1 (a)

- ✧ As seen in the scenario, The contractor induction training and assessment of the new engineer was not fully completed before entering the site, which was the requirement to enter the site.
- ✧ As seen in the scenario, The training was treated as a low priority, as the team leader said that induction training can be the completed the later and allowed the new engineer to enter the site.
- ✧ As seen in the scenario, As the Despite the site rule, the new engineer did not completed assessment before starting the work.
- ✧ As seen in the scenario, The new engineer was not trained for the site specific hazard and the hazard related to FC (The Funnel and Crusher) and conveyor belt.

- ✧ As seen in the scenario, There should have been additional training or checks for the competency of new engineer, as he was new to the site. But none were carried out.
- ✧ As seen in the scenario, The new engineer started the work without getting safe system of work instructions for repair task and fault finding.
- ✧ There were no safety procedures implemented while the new engineer came to find the fault and repair the FC(The Funnel and Crusher). For example, there should have been systems like isolation of machinery and equipment, log out tag out, supervision, etc. Which is a failure and insufficient management for implementing safety protocols at the site.

1 (b)

During work on this site:

- ✧ As seen in the scenario, None of the management insured that the new engineer follow the same system work for the inspection repair of FC(The Funnel and Crusher).
- ✧ As seen in the scenario, The Failure of Management to control the area of work, while there was a known fault of FC (The Funnel and Crusher) throwing stone while restarting.
- ✧ As seen in the scenario, The Signs of poor communication showed, there was not warned about the unexpected movements of FC(The Funnel and Crusher).
- ✧ As seen in the scenario, There was a distracted supervision of worker A, as he was using his mobile phone while in new engineer was allowed to work.
- ✧ As seen in the scenario, there was inediquate lighting which was not sufficient and worker also complaint about it, and there was sometimes also low visibility. These vote for not addressed by the management, which shows it's failure and in efficiency regarding implementing health and safety protocols and procedures.

Task 2: Special case risk assessment applications

2

Factors to be considered for alone night shift officer for risk assessment:

- ✧ As seen in the scenario, The Night time working alone, increases the chances of accident as there is low visibility.
- ✧ As seen in the scenario, The Injuries may go unnoticed for a long time as there is no support while working alone at night.
- ✧ As seen in the scenario, The presence of water-filled pit lake and open quarry pits causes the risk cough series injury and even death in case of accident occurs.
- ✧ As seen in the scenario, The petroling is carried out by the officer outside the site, increasing the environmental hazard.
- ✧ The officer maybe far from help as the site is large and remote.
- ✧ For part of night shift, the security officer is the only person on site, which increases the vulnerability in case of occurring of an incident.
- ✧ As seen in the scenario, The poor mobile phone signals decreases the ability of officer to call for help in case of emergency.
- ✧ As seen in the scenario, The Far distance of site from the emergency services increases the risk of severity of an incident.
- ✧ As seen in the scenario, There is the history of unauthorised and violent intruders trying to access the site, which increases the risk for the officer while working alone.
- ✧ As seen in the scenario, There is a increased risk of confrontation, as officer might have to challenge the intruders alone.
- ✧ As seen in the scenario, Repeated night shift can cause fatigue which can reduce in reaction time and alertness.

- ✧ As seen in the scenario, The Training's given to the officer for dealing with emergencies alone should be considered.
- ✧ Adequacy of regular checking or alarms, and other monitoring systems, must be assessed for lone working.

Task 3: Indicators of health and safety culture

3

Positive health and safety indicators at minerals-Are-US:

- ✧ As in scenario, there are team briefings which ensures the reinforcement of safety messages and communication.
- ✧ As seen in the scenario, There is a enforcement of controlled access by the security officers, to prevent hazards or accidents.
- ✧ As in scenario, there are emergency button and radios, which shows there are emergency procedures in place and communicated.
- ✧ As seen in the scenario, There is a safety system for equipments in use, like emergency stop button for the FC(The Funnel and Crusher).
- ✧ As seen in the scenario, There is indication of effectiveness of measures, as decide maintains low accident record.
- ✧ As in scenario, there's a culture of a openness, as the workers are encouraged to talk and there concerns are welcomed in the meetings.
- ✧ As seen in the scenario, Others Quarries organizations use Minerals-At-Us as an example for health and safety practices.
- ✧ As seen in the scenario, For all the visitors and contractors in the site there is a strong induction process.
- ✧ As seen in the scenario, Before starting the work, there is a strong competence ensuring, as there is a contractor specific training and assessment.
- ✧ As seen in the scenario, for high risk task controlling there is a permit to work system.
- ✧ As seen in the scenario, there is a regular provision of health and safety refresher trainings.
- ✧ As seen in the scenario,The H&S policy statement are understood by staff and displayed at site.
- ✧ As seen in the scenario, The MD and management staff visits the site weekly and ensures operations safely and speak with workers.
- ✧ As seen in the scenario, There is the awareness of individual roles and responsibilities by every staff.
- ✧ As in scenario, workers activity report near misses and hazards.
- ✧ As seen in the scenario, There is a thorough inspection of the safety reports by the team leader and managers.
- ✧ As seen in the scenario, The Investigations results are informed by to the workers regularly.

Task 4: Employer obligations

4 (a)

How the obligations under ILO's R164 have been followed are as under:

- ✧ As seen in the scenario, The Safety procedures are in place for high risk tasks like permit to work system for FC (The Funnel and Crusher) maintenance.
- ✧ As in the scenario, the management conducts regular site inspections to monitor safety standards and compliance.
- ✧ As seen in the scenario, The Workers are encouraged to report any hazards and near misses, and their investigation outcomes are being communicated.
- ✧ As seen in the scenario, The Workers know their roles and responsibilities, and health and safety policy is displayed.

- ✧ As seen in the scenario, There is implementation of emergency response procedure like first aid response and gatehouse emergency button, which shows readiness to tackle incidents. As per International labour organisation ILO's R 164.
- ✧ As seen in the scenario, The Provision of the health and safety training is ensured to all workers, like inductions and refresher trainings.
- ✧ As seen in the scenario, The contractors are required to complete detailed training and assessment to ensure safe work practices and understanding of hazards.
- ✧ As seen in the scenario, the employer provided safe work environment by security controlled of the site, prevented unauthorized access.

4 (b)

How the obligations for employer under ILO's R164, is not followed are as under;

- ✧ As seen in the scenario, The permit to work was not issued and the engineer started fault finding on FC(The Funnel and Crusher), failing to control high risk task.
- ✧ As seen in the scenario, The late shift manager allowed the new engineer to work without induction and assessment completion, breaching the obligations that makes sure that workers are competent and trained.
- ✧ As seen in the scenario, The obligation of adequate supervision was breached, as Engineer was left with supervision of worker A, who had only 3 months experience, hence no adequate supervision.
- ✧ As seen in the scenario, The Lighting was insufficient to work but no sufficient actions taken by management to counter it.
- ✧ As seen in the scenario, The Management ignored safety and prioritized productions, as the operated the FC (The Funnel and Crusher) by restarting it, despite faults and breakdowns.
- ✧ As in scenario, during the incident the signals were poor causing delay in emergency response, which proved there were inefficient communication systems.
- ✧ Equipment FC (The Funnel and Crusher) was not made safe or isolated and engineer began to work, recording into serious hazard.
- ✧ As seen in the scenario, There was lack of adequate risk assessment for inexperienced workers handling equipments and line workers and contractors.

Task 5: Inspection frequency

5

Reasons why outer area must be inspected more frequently as compared to inside buildings of site:

- ✧ There is water filled pit lake and quarry pits in the outdoor area, which should be respected more frequently due to high risk zones.
- ✧ As seen in the scenario, There are more frequent checks required for outdoor because of uneven terrains, and change in weather.
- ✧ As seen in the scenario, Near miss like falling of Rocks from FC (The Funnel and Crusher) indicates the high risk at the outer activities.
- ✧ As seen in the scenario,The Increase increase so hazards, as machineries like FC(The Funnel and Crusher), The conveyor belt and trucks are operated outside.
- ✧ Workers and contractors move around the area outside, exposing the increase of risk and hazards.
- ✧ As seen in the scenario, There is a increase risk of slips, trips, due to low visibility and inadequate lighting in early morning and in night.
- ✧ As seen in the scenario, There's a less control of hazards in outdoor as compared to indoor, some more frequent inspections are required.

- ✧ As seen in the scenario, As in the scenario, outdoor area patrolling is conducted by security officer to prevent unsecure conditions and intruders, showing high vigilance is required.
- ✧ As seen in the scenario, The Indoor areas (offices, training rooms, warehouse) has less moving equipments as compared to outdoor, requiring less frequent inspections as compared to outdoor.
- ✧ Near miss have occurred previously and was being reported by workers, like there was falling of rocks from the funnel and crusher (FC)(The Funnel and Crusher), whenever the worker used to restart it, which was forced to restart after the FC(The Funnel and Crusher) unexpectedly stops. this indicates the higher outdoor risk and hazards as this machine and equipment is placed outside.

Task 6: Developing a safe system of work

6

Reasons workers should involve while developing safe systems of work:

- ✧ As seen in the scenario, The Workers can provide feedback regarding emergency procedures, as the know the ground reality on site, which can be helpful like emergency stop button.
- ✧ As seen in the scenario, The Involvement of workers ensures that the procedure developed are realistic and practically applicable on site, as they know actual work conditions.
- ✧ As seen in scenario, Worker A unusually used emergency stop button of FC upon incident. Thus, involving workers can significantly reduce near misses and accidents.
- ✧ If workers are involved while masked safe systems of work, workers are more likely to remember and follow the procedures that they helped to develop.
- ✧ As seen in the scenario, The Positive health and safety culture is developed when workers are involved, as it encourages them.
- ✧ As seen in the scenario, Workers can identify operational challenges like insufficient lighting during night shift.
- ✧ As seen in the scenario, Manager cannot notice operational challenges which workers can, as they are practically operating the FC(The Funnel and Crusher).
- ✧ As seen in the scenario, Workers can identify the risks while around and restarting the FC (The Funnel and Crusher), like unexpected falling of rocks while restarting.
- ✧ As seen in the scenario, Workers are aware of site area and they know which part of machine and requirement is dangerous like conveyor belt and moving crusher.
- ✧ As seen in the scenario, They know which control measures worked in past and which did not, so workers can suggest effective control measures.
- ✧ As seen in the scenario, Workers awareness and understanding regarding safe systems of work can be increase by their involvement.

Task 7: Near miss investigation

7

Why previous near miss investigations could have helped prevent accident involving new engineer:

- ✧ As seen in the scenario, There would have been permit work system for all the activities involving the finding of faults.
- ✧ As seen in the scenario, The Improvement in the trainings of contractor and workers could have been achieved, recognising hazards related to FC(The Funnel and Crusher).
- ✧ As seen in the scenario, There might have been strengthening procedure involving the lone working and isolated work check-ins and communication system.

- ✧ As seen in the scenario, Near misses could have realised to management to do early actions rather than waiting for scheduled maintenance.
- ✧ As seen in the scenario,risk of climbing on to the conveyor belt could have been eliminated.
- ✧ As seen in the scenario, there was insufficient lighting and visibility, which could have been prevented before the accident.
- ✧ The issue of falling rocks while restarting the FC (The Funnel and Crusher) could have been highlighted before, when the FC(The Funnel and Crusher) stopped.
- ✧ As seen in the scenario, Previous near miss investigations could help in highlighting that there was a immediate full technical inspection required, rather than waiting for schedule instruction.
- ✧ As seen in the scenario, There could have been revised and updated risk assessment, which could have the include approaching the FC (The Funnel and Crusher) safely and inspecting it.
- ✧ As seen in the scenario, Workers could have been informed and warned regarding the falling of rocks while restarting, and to not stand near or under the FC (The Funnel and Crusher).
- ✧ As seen in the scenario, Before the inspection and maintenance of FC (The Funnel and Crusher) it could have been isolated, result of updated save system of work from learning previous near miss investigations and accident could have been prevented.
- ✧ As seen in the scenario, Emergency stop button and their location could have been reviewed and made more accessible.
- ✧ There would have been proper supervision for the new engineer and inexperienced for specific site.
- ✧ As seen in the scenario, All together, near the miss investigations could have increase protective control measures and awareness. Thus, reduced risk of any serious accident.

Task 8: Roles and responsibilities

8

The shift managers and the managing director fulfilled their health and safety roles and responsibilities:

- ✧ As in scenario, the managing director At the end of the meeting, welcome any further health and safety discussion or questions from workers.
- ✧ As seen in the scenario, Managing director remind all workers to continue being mindful of health and safety, as on site there is always going to be a high risk of injury when you work near any hazard
- ✧ As in scenario, Site managing director reviews accident book, there is no serious incidence in last year
- ✧ As seen in the scenario, Shift managers must be on site and supervise work activities of all workers
- ✧ Shift managers conduct regular inspections for checking the work condition and Hazards which one reporting on that day.
- ✧ As seen in the scenario,The Managing director shows leadership role by the importance of health and safety to all workers.
- ✧ As in Scenario, The Managing director reminds workers more careful near hazard
- ✧ As in Scenario, Shift manager conduct weekly site for inspections to identify hazards.
- ✧ As seen in the scenario, The Shift Manager Reported hazards are taken seriously and investigated

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