PE8408/ Heauth, rafety and Environmental Hanagement in petroleum Industries

Year: if year Jem: W sem

Onit -1 Part Bec

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Describe the role of trade union representative.

All representatives, either appointed by trade unions or elected by employees can

· Represent the workforce on health and satery generally or make rep on potential hazaeds and dangers.

· Attend training courses

Have contact with inspectory

Functions of union-appointed health and Safety representatives.

-> Represent employees generally and when you consult them about specific matters that will affect the health, safety and welfall of the employees.

> Represt employees when health and ragely inspectou from HSE or local authorities consuct them.

Invertigate accidents, rear muses, and other potential hazards and dangerow occurrences in the workplace.

-> Invertigate complaints made by an employer they represent about their hearth. Safety or welfare in the workplace.

> Inspect the workplace

with at least one other appointed representative, request is writing that you setup a health and ratery committee,

> Attend health and rafety committee meetings as a representative of your employees.

Defition

The role of the fearth and sately Hanagement representative is independent of Hanagement.

Representatives are there to repret the intender and concerns of their co-worker and

respond on their behave.

· They provide valuable insight, skills and resources that help employers and their workers.

Goals.

• The Government firmly believes that building and maintaining national preventive rafety and health

culture is the need of the how.

· with a view to develop such a culture and to Improve the safety, health and Environment Par Work place, it is exential to meet the following requirements,

> providing a statutory framework on occupational tratery and health in respect of all rectors of industrial activities including the construction rector, designing suitable control systems of compliance, enforcement and incentives for better compliance.

-> providing administrative sentorement and montiver

for better compliance.

-> providing a system of Biontives to employers and employees to achieve higher hearth and rafety stander di.

-> providing for a system of non-financial in contives for improvements in Satety and health.

> Establishing and developing the beleasth and development apability is emerging area of rik and providing for effective control measures.

> focusing on prevention offategies and monitoring. performance through improved data collection eigher on work related injuries and diseases.

man power and knowledge in the areas of safety, he auth; environment at workplaces in disjecent sectors.

-> Including Satety and occupational health as an

integral part of every operation.

> promoting inclusion of safety, health and EV impresement at workplaces as an important component in other relevant national policy documents.

Objectivel:

-> Continuous reduction of works netated in the incidence of work related injuries, Fatalities, dueaues disauteu and loss of national assets.

Improved coverage of work related hywries fatalities and disenses and provide for a more comprehensive data base for facilitating better performance and monitoring.

regarding safety, health and environment at workplace related areas.

-> Continually in clearing community expectation of work place health and fatety standards.

> Improving satety, health and environment at wantplace by Cleation of "green Jobs" contributing to sustainable enterprise development.

3. Discus in detail about the Factory ac, 1948.

The act has been promulgated primarily to provide safety measures and to plomote the health and welfare of the workers employed in factories.

provisions relating to health for employees working in factories and the manufacturing process addressed by the factories act, 1948

- of cleanliness at the workplace. This includes that there should be no accumulation of dist and refuse and should be removed daily and entire area, should be kept Clean.
- extuents.

e section 13: This section focuses on Ventilation and temperature maintenance at world place

ection 4. This section details on the proper exhaution

of dust and fume in the factory.

artificial humidification in factories.

section 16:- overcrowding is also an important usue

which a specified in the section.

e section 18: Arrangements for sufficients and pulle drinking water for the workers.

section 19:- betails relating to uningle and latrice

construction at factories.

the factory.

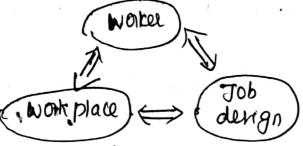
Section 17: proper awangement of lighting in factories section al: Thu section specifies that fencing of Hachinery is recessary. section 23: Thu section prescribes that employment of young person on dangerous machinery is not allowed. Section 24: provisions of striking geou and devices for cutting of power in case of emergency. section &8: This section prohibits working of women & children on specific machinery: section 32: s'pecifiéed au floors, stair, parages and gangways should be properly constructed. section 34: specify no person in any factory shall be employed to lift, cassy or move any load to heavy that night cause is injury. section 35: safety protection of eyes of worker section 36: No worker forced to enter any chamber, tank letc. section 38: proper pre cautionary measures built for fire. jection 45; well equipped first aid box. Sectional: prohibits that no women shall be allowed to clean, lubricate or adjust any machinary part section 27: no women shall be employed in any part of a factory for pressing cotton. section 25; bars women in any plant 7 pm to

section 46: Prohibits women in Hirring process.

6.00 am.

- Ergonoma a the study of work in relation to the enforment in which it is performed and those who Osed to determine how the workplace can be designed perform ut.

or adopted to the worker in order to prevent a variety of health problems and to in clearly efficiency.



injured can retul from;

Repeated use overtime of vibrating took and equipment such as Jackhammes.

- Applying force in an appropriation.

- Applying excurve pressure on parts of the hand, back i writt on Juints.

working with a bent back.

Repetitive work is a common cause of musculos teletal injuries and dueases. permanent RSI (Repetitive strain injuries) can be

prevented by,

· elininating the rest factors from the Job

reducing the pace of work.

incleasing the number of breaks from repetitive war

· Hoving the worker to other work, on by alternating repetitive tasks with non-repetitive tasks at regular înterval.

Types of Ergonomiu:

physical ergonomics: human body's responses to physical and physiological work loads. Repetitive strain injuries from repetition, vibration, torce and posture fall into category eggnifive eigonomiu: deals with the mental processes and capacities of humans when at work.

organizational ergonomiu: dears with the organizational

common work-related (Hurculoskeletar dirorders)

Affect the mucles, nerves, blood versels, ligaments and tendons.

Symptoms: Ducomfort, Pain, Numbres, Lots of motion /flexibility, Sparticity, sty Jorning, Burning, Swelling, Tingling, Intlammation, paralysis.

Injuries are costly -

- Injuries to workers caused by poorly derigned took or workstations can be very cortly in terms of pair and outlering, not to maintain the financial loss to workers and their families

on redesigning it may cort an employer some

money initially

- For workers the benefit are obvious applying ergonomics principles are prevent paintal and potentially expling injuries or illness and make work more comfortable and therefore earlier to perform.

Juch as Iso14000 and I so 4001:-

150 4000: is a family of standards related to environment that exits to help organizations (a) minimize how their operations regatively expect the environment: (b) comply with applicable laws, re -gulations (c) continually improve in the above.

ISO 4001: ISO 4001, defines criteria for an EHS. Thu includes.

· Single site to large multi-national companies

· high-rak. companies to low rak service organizations

· The Manufacturing, process and service industries

including local governments.

all industry sectors, including public and private sectors

· original equipment manufactures and their Suppliels.

Baric principles and Methodology

The baric principles of 150 4001 are based on well known plan-Do-check-Act (POCA) you.

- O Plan: Establish objectives and procuses required
- 6000: implement the processes
- & check: Measures and Monitor the processes and report results.
- a Act: Take action to improve performance of EHS Based on results.

List of Eso 14000 series standards:

Requiements with guidance for use.

Greneral gwdelines on implementation.

150 14006: Environmental management dystems....
Gruidelines for incorporating ecoderign.

e 150 14000 to 4025: Environmentale labels and declarations.

of nominated projects and assets: discusses post-production environmental assessment.

Graidelines.

- life eycle averment.

and guidelines water footpoint-poinciples, requirements

· 150 4050; rocabulary: term and definitions

into product design, and development.

and reducing greenhouse gas emilitions.

fyrems.

bargaining:-

First read over the original document quickly to get a general idea of what it covers.

> Read the document and write down the main headings and the to pice covered.

-> Read et again confuny and undeiline or write down the key words or phrases.

> Hate questions out of the main sideas. The question should apply to your workplace.

- -> write down the reference next to the question.
- -> Includes specific regulations in the check left so you can check for compliance.

checklish from the legislation:

- → Does your employer make sure that the workplace all machinery, equipment and work processess are state and do not cause any health problems now or health problems that may occur is the fature. (Article (16 €))
- > 20001 your employer provide workers with proper and adequate personal protective eruipment when it is needed. (Article 1663)
- > 200 the safety rep on the cerion help workers comply with health and safety regulations (Article 1965)

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Collective bargaining: -

- Industrial disputes blue the employee and employer can also be settled by discussion and regotiation blue those two parties in order to arrive at a decision.
 - collective bargaining involves
 - Negotiationy
 - · Draffing
 - · Administration
 - employers, employers and the wir representatives.
 - organizational trade unions with open mind.
- Often the bargaining process can bring about improvements in the work place much more quickly than waiting for national legislation to change, which can be a very slow processes.

Defitions: - Government legislation is what provides workers with minimum standards of health and safety in the workplace.

Ideally, legislation shoud,

- · Protect all workers :-
- Be oriented toward the prevention of occupational silvenes and injuries by requiring employers to comply with regulations that are more protective than just existing minimum orandards:
 - Include provisions for adequate compensation and rehabilitation for workers when needed
- Include provisions for sufficient workplace impectory who are properly trained and excuipped.
 - Include strong enforcement
 - allow for strong penalties for employees who is
 - address any region-specific reads.

du:

- Hoth countries have acts dealing with Occupational health and sately. For eg: He factories act on the health and sately at work act.
 - Act are basically legal statements of the general health and safety prosuples and responsibilities in a particular country and they are made on approved by

The governments of pauliaments of individual countries.

— not are fully supported by law, therefore potentially they have a great deal of power, but generally that power is only expective with adequate enforcement.

Regulations:-

- Once a health and ratery act is passed of them a minister (The minister of labour), the Cabinet on the state provincial or even rational government will develop detailed regulations.

- Regulations are fully supported by law so employer are required to comply with them, Just like the areal act which they accompany.
- Regulation tend to cover specific industries or hazards and state. The mandatory nunimum standards and objectives for hazard control.

 Safe levels "training etc.,

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