

<b>Uka Tarsadia University (Diwaliba Polytechnic)</b>
<b>Diploma in Environmental Engineering</b>
<b>Assignment (Occupational Health and Safety -EV1006)</b>

### **Unit-1 Occupational Hazard**

1. Define Dust and write type of dust affecting lung.
2. Classify occupational diseases.
3. Write notes on diseases caused by Hazardous chemicals.
4. Discuss main objectives and importance of Ergonomics.
5. What are threshold limit value and give their three components?
6. Write Ergonomics applications
7. Write measures for occupational health.
8. Explain lethal concentration
9. What do you understand by LD50 and LC50?
10. Explain in brief about lethal dose.

### **Unit-2 safety, accident and safety management**

1. Discuss reasons for accidents due to material handling.
2. Define accident and write factors responsible for causing accident
3. Give examples of unsafe acts.
4. Write responsibility of management in field of safety.
5. Define safety.
6. What is risk?
7. Discuss importance of safety in industry.
8. What is various measure of employer's participation in safety?
9. What is plan layout? Discuss safety consideration in plant layout.
10. Write not on safety and working environment.
11. Define industrial accidents.
12. What are various types of accident in industry?
13. What are causes of accident? Explain in details.
14. What is different measurement taken up in organization to prevent accident?

### **Unit-3 Electrical and Mechanical Safety**

1. Write causes of electrical hazards.
2. State safety norms as per Indian Electricity rules.
3. Write notes on safety colour codes.
4. State main sources of mechanical hazards.
5. Write remedies to control mechanical hazards.
6. State safety norms as per Indian Electricity rules.
7. Write provisions in factory act 1948 for Cleanliness
8. Write provisions in factory act 1948 for Cleanliness / ventilation and temperature
9. Discuss electrical hazard in general.
10. Write reasons for electrical shocks.
11. Write remedies to control electrical hazards.
12. Explain various safety colour codes which are prevalent in industries.
13. State precautionary measures suggested in connection with machine guards.
14. Discuss various health provisions of factory act 1948
15. Write reasons for electrical shocks.

### **Unit-4 Fire and explosion**

1. Define Fire, Explosion, and Combustion.
2. Explain in brief what is smothering?
3. What are the different types of fire extinguishers?
4. Define: Firefighting, Fire prevention, Fire escape
5. What are the different fire awareness signs?
6. Write causes of Fire
7. Write the general points regarding fire safety.
8. Write methods of fire fighting
9. Write duties of fire inspector
10. Write list of flammable materials.
11. Explain fire extinguishing technique

## **Unit-5 Hazards and Risk identification, Assessment and control techniques**

1. Define the following terms: Hazard, Risk, and Harm.
2. Write a note on Lethal Concentration.
3. Write a note on Preliminary Hazard Analysis.
4. Explain how an LD50 value should can be used.
5. Write short note on HAZAN.
6. Write a short note on HAZOP.

## **Unit-6 Occupational Hazard**

1. Write requirements of PPE.
2. Write notes on Mechanical filter respirators
3. Write notes on Equipment used for protection of Finger.
4. Explain in brief safety belts for industrial operation.
5. Write Special tools for live line maintenance.
6. Write Notes on - Chemical cartridge type respirators.
7. Write notes on safety shoes.
8. Write short notes on Equipment used for protection of Finger
9. Equipment used for protection of Lungs and respiratory tract.
10. Write notes on types of eye protection equipment.
11. Write notes on safety shoes.
12. Write Notes on - Chemical cartridge type respirators
13. Write short notes on Equipment used for protection of Finger
14. Write notes on types of eye protection equipment.
15. Write notes on Air line respirators.
16. What is respiratory?