

**VOCATIONAL DIPLOMA IN FIRE SAFETY
EXAMINATION**

DECEMBER 2020

FIRE SAFETY IN PROCESS PLANT

Time : 3 hours

Maximum marks : 75

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Discuss the requirements of a Hose used in Fire fighting.
2. Discuss the need for an Hydrant, and its limitations.
3. Describe the various fixed fire fighting installations.
4. Describe a Fire Crash Tender.
5. Explain the First Aid for Burns. (Fire injury).
6. Describe the properties required of a proximity suit.

7. Explain the need for fire safety in industries.

SECTION B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Describe the types, advantages and disadvantages of various pumps used in Fire Fighting.
9. Describe the safeguards in Buildings to prevent fires.
10. Describe the installation and working of Fire alarm systems.
11. Discuss the precautions to be taken in storage of flammable materials.
12. Describe the features of chemical fires and their prevention.
13. Describe the causes for fires on ships and their prevention.
14. Briefly explain about Resource of water body, agency, fire station, water tank, operation-Execution patterning - mobilizaion - TIMING, Emergency FIRE EXIT, Assembly point-position, Locaiton.

VOCATIONAL DIPLOMA EXAMINATION**DECEMBER 2020****Fire Safety****HAZARD EVALUATION TECHNIQUE**

Time : 3 hours

Maximum marks : 75

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Discuss the importance of safe working practices.
2. Describe need and features of a safety policy, health policy, environment policy.
3. Discuss the Laws related to Industrial safety.
4. Discuss the effects of shock on the Human Body.
5. Discuss the importance of Good Housekeeping.
6. Describe the various Radiation Hazards, and how these can be minimized.

7. Explain about LOTO? Electrical SAFETY precaution at Industry.

SECTION B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Describe the various types of Accidents, their causes and preventions, Identification of hazards.
9. Describe the hazards in using High pressure Air, and how they can be prevented.
10. Describe the essential features of an emergency control plan.
11. Describe the various mechanical hazard and devices used to ensure safety from mechanical accidents.
12. Discuss the various safety precautions that are to be followed in welding and gas cutting.
13. Discuss the control of dust, fumes and vapours in workspots and safeguards used for protection.
14. Explain about Emergency mock onil, Emergency Evacuation Planning

VOCATIONAL DIPLOMA EXAMINATION DECEMBER - 2020**FIRE SAFETY****COMMISSIONING OF FIRE PROTECTION SYSTEM**

Time: 3 Hours

Maximum Marks: 75

PART - A (5x5=25 Marks)Answer any **FIVE** Questions.

1. What are the objectives of T & C works?
2. Write shortly about water system tests.
3. Explain the checking of smoke detectors.
4. Emergency lighting system – Explain.
5. List the procedure of testing emergency generator.
6. What is testing and inspection?
7. Write a short note about commissioning certificate.
8. What is a fire protection system?

PART - B (5x10=50 Marks)Answer any **FIVE** Questions.

9. Explain about the scope of the commissioning work.
10. Write in detail about Electrical and Alarm system tests.
11. Explain about gaseous extinguishing system tests.
12. What is hot smoke test? Explain.

13. Explain the procedure for statutory inspection / commissioning.
14. List the certificate to be inspected in the Hydrant.
15. Explain about the spacing and location of spricular in fire protection system.
16. Explain about the maintenance procedure of carbon dioxide type fire extinguishers.

**VOCATIONAL DIPLOMA EXAMINATION
DECEMBER 2020
FIRE SAFETY
SAFETY MANAGEMENT**

Time: 3 Hours

Maximum Marks: 75

PART - A (5x5=25 Marks)

Answer any **FIVE** Questions.

1. List any three industrial calamities that are example of safety violation.
2. What is OHSAS? Explain in brief.
3. List the rules and regulations related to the regulation of labor and safety in Mines.
4. Explain the term “Hazardous process”.
5. Explain about the lighting in factories as per factories act.
6. Write a short note about certificate of stability.
7. What are the duties of safety officer in a mine.
8. Explain the term ANFO and BMD vehicle with regard to explosives.

PART-B (5x10=50 Marks)

Answer any **FIVE** Questions.

9. Explain in detail about fire exists as per model factories rule.
10. Explain about Notice of accident in mines.
11. Write in detail about markings on explosives and packages.
12. List out the specification of values fitted in gas cylinders.
13. State the precautions against static charges of the vehicle used to transport Petroleum products.
14. Write about the rules to regulate environmental pollution.
15. Explain about packaging, labelling and transport of hazardous waste.
16. Write about Health and safety policy as prevailing in the Industries act.