Question Bank for Plant Safety Management

Chapter 1.0: INTRODUCTION TO INDUSTRIAL SAFETY MANAGEMENT
1. What are the fundamental principles of industrial safety? (L1, C311.1)
2. Define and explain the difference between unsafe acts and unsafe conditions. (L2, C311.2)
3. How do safety, health, and environment integrate in industrial safety management? (L3, C311.3)
4. What are the main objectives of safety management in an industrial setting? (L2, C311.1)
5. List and explain the key terms and definitions used in safety management. (L2, C311.1)
6. Classify different types of industrial accidents and their causes. (L3, C311.2)
7. What are the principles of industrial accident prevention? (L2, C311.2)
8. How can safety culture be developed within an organization? (L3, C311.1)
9. What role do safety audits play in industrial safety management? (L2, C311.1)
10. Explain the importance of employee involvement in maintaining safety standards. (L3, C311.1)
Chapter 2.0: SAFE WORKING PRACTICES
1. What are the key aspects of good housekeeping in a workplace? (L1, C311.1)
2. Explain how a safe working environment is created and maintained. (L2, C311.1)
3. How do you identify and stop potential hazards at the workplace? (L3, C311.2)
4. What precautions should be taken when using a ladder in an industrial setting? (L2, C311.1)
5. Explain the safety instructions that should be followed during equipment maintenance. (L2, C311.1)
6. What are the safety measures to be followed while handling compressed systems and cylinders? (L3, C311.2)
7. What is the permit-to-work system and why is it important in safety management? (L2, C311.1)
8. Discuss the safety measures required for safe material handling in industrial environments. (L3, C311.1)
9. Explain how ergonomic practices contribute to reducing workplace accidents. (L2, C311.1)
10. What safety measures should be followed during electrical maintenance work? (L3, C311.2)
Chapter 3.0: PERSONAL PROTECTIVE EQUIPMENTS (PPE)
1. Why is personal protective equipment (PPE) necessary in industrial environments? (L1, C311.1)
2. What are the different types of PPE required for various industrial hazards? (L2, C311.1)
3. What guidelines should be followed when using PPE in a workplace? (L2, C311.1)
4. Explain the classification of hazards and the corresponding PPE required for each. (L2, C311.1)
5. Discuss the factors to consider when selecting PPE for different body parts. (L3, C311.1)
6. What are the common issues related to PPE misuse, and how can they be addressed? (L3, C311.1)
7. How does PPE usage vary based on the type of industry (e.g., chemical, electrical, mechanical)? (L3, C311.1)
8. Explain the importance of regular maintenance and inspection of PPE. (L2, C311.1)
9. How can workers be trained effectively on PPE usage? (L3, C311.1)
10. What steps should be taken if PPE is found to be damaged or malfunctioning? (L2, C311.1)
Chapter 4.0: FIRE PREVENTION AND FIRE FIGHTING
1. What are the fundamental principles of fire and the elements required to sustain a fire? (L1, C311.2)
2. What are the different types of fire, and how do you classify them? (L2, C311.2)

3. Explain the different types of fire extinguishing techniques used for each fire classification. (L3, C311.2)
4. What causes industrial fires, and what preventive measures can be taken? (L2, C311.2)
5. List and describe the various types of fire extinguishers used in industries. (L2, C311.2)
6. How can fire prevention measures be integrated into daily workplace practices? (L3, C311.2)
7. Explain the importance of fire drills and preparedness in an industrial setting. (L3, C311.2)
8. What are the steps to take in case of a fire emergency in the workplace? (L2, C311.3)
9. What role does fire safety equipment play in industrial fire prevention? (L3, C311.2)
10. How can fire hazards be identified during routine workplace inspections? (L3, C311.2)
Chapter 5.0: CHEMICAL HAZARDS
1. What are the main classifications of chemical hazards found in industrial settings? (L1, C311.2)
2. Explain how the concentration levels of toxic chemicals affect workers' health. (L2, C311.2)
3. What control measures can be implemented to reduce chemical exposure in the workplace? (L3, C311.2)
4. What factors influence the effects of toxic chemicals on human health? (L2, C311.2)
5. Discuss the role of industrial hygiene in chemical hazard control. (L3, C311.2)
6. What are the key terms related to chemical concentration levels as per industrial hygiene norms? (L1, C311.2)
7. How should chemical spills be managed to minimize harm to workers? (L3, C311.2)
8. Explain the significance of Material Safety Data Sheets (MSDS) in chemical hazard control. (L2, C311.2)
9. What steps can be taken to ensure safe storage of hazardous chemicals? (L3, C311.2)
10. How can workers be educated on the potential chemical hazards they face in the workplace? (L3, C311.2)
Chapter 6.0: ELECTRICAL SAFETY, ELECTRICAL SHOCK AND THEIR PREVENTION
1. What are the basic precautions to take when handling electricity in an industrial setting? (L1, C311.1)
2. What are the common electrical hazards found in industrial systems? (L2, C311.2)
3. How can electrical hazards be prevented in the workplace? (L3, C311.2)
4. What safety measures should be implemented when working with electrical equipment? (L2, C311.1)
5. How do grounding and bonding help in preventing electrical hazards? (L3, C311.1)
6. Explain the safety provisions necessary for electrical maintenance work. (L2, C311.1)
7. How can electrical shock incidents be minimized in industrial settings? (L3, C311.1)
8. What are the essential safety standards for electrical installations in industrial environments? (L2, C311.1)
9. Explain the importance of PPE in preventing electrical shocks. (L3, C311.1)
10. What is the role of safety training in electrical safety? (L2, C311.1)
Chapter 7.0: MECHANICAL HAZARDS
1. What are the most common sources of mechanical hazards in industrial settings? (L1, C311.2)
2. What is the role of machine guards in preventing mechanical injuries? (L2, C311.1)
3. How do safety devices work to prevent mechanical hazards? (L3, C311.1)
4. What safety measures should be followed when working with pressure vessels and pressure hazards? (L3, C311.1)
5. Explain the importance of maintaining gas cylinders safely in the workplace. (L2, C311.1)

6. What are the different types of maintenance (breakdown, preventive), and how do they affect safety? (L2, C311.1)
7. Discuss the importance of regular inspection of mechanical equipment to prevent accidents. (L3, C311.1)
8. How can workers be trained to safely operate machines and heavy equipment? (L3, C311.1)
9. What are the key considerations when designing a safety plan for mechanical hazards? (L3, C311.1)
10. What steps should be taken to safely operate machines with rotating parts? (L3, C311.1)