



Industrial Plant Safety

Duration 5 Days

Introduction

Safety is one of the main issues in industrial plants. This course is designed to introduce candidates with the main hazards in industrial plants and how to avoid them. Behind that it concentrates on the use of PPE.

Who Should Attend

This is general safety course designed for all workers and technicians working in industrial plants. The course aims to familiarize them with the hazards they can meet at the workplace and how to minimize them.

Course Objectives

Upon completion this program Participants will be able to:

- ✦ Identify main hazards in industrial Facilities
- ✦ Use personal Protective equipment
- ✦ Understand safety signs and tags
- ✦ Control hazards in the workplace
- ✦ Take action in emergency procedure.

Course Outlines:

1. **Industrial Hazards**
 - 1.1. Flammable explosive substances
 - 1.2. Pressurized lines and containers
 - 1.3. Pressurized substances
 - 1.4. Extreme of temperature
 - 1.5. Environmental hazards
 - 1.6. Hazardous gases, vapors and fumes
 - 1.7. Confined space hazards
 - 1.8. Hazards associated with metal work
 - 1.9. Hazards associated with tools, equipment and machinery.
 - 1.10. Lifting and handling hazards
 - 1.11. Electrical hazards
2. **Personal Safety Equipment**
 - 2.1. Eye, ear, and face protection
 - 2.2. Head protection
 - 2.3. Foot and hand Protection
 - 2.4. Respirators
 - 2.5. Air purifying respirators
3. **Safety Signs and Tags**
 - 3.1. Accident prevention signs and tags
 - 3.2. Hazardous and dangerous substances signs and tags
 - 3.3. Permit to work system
 - 3.4. Lockout procedure
 - 3.5. Safety hand signs.
4. **Mechanical Safety**
 - 4.1. Protective equipment for metal work



- 4.2. Safety rules for using hand tools and power tools
- 4.3. Safety rules for working with compressed gases, fluids, and pressurized lines and containers.
- 4.4. Safety precautions and rules for welders.
5. **Work Environment**
 - 5.1. Benefits of clean, orderly work area.
 - 5.2. Lighting and ventilation.
 - 5.3. Safe storing of tools and equipment.
 - 5.4. Lifting techniques.
 - 5.5. Procedures for the safe disposal of rubbish, waste, and spills.
6. **Emergency Procedures**
 - 6.1. Types of alarm systems
 - 6.2. Emergency communication procedures.
 - 6.3. Emergency evacuation procedures.
 - 6.4. First purpose and steps.\
 - First procedures for resuscitation, bleeding, electric shock, poisoning, fractures, and burns.