

## Case Study: Safety in Industries

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**Abstract**— As an integral part of the business every industry ,company or factory should believe that there is no work and service or activity is important than the human and living being's safety .There should be no compromise with the life of any living beings. The safety policies not only decrease the hazards and accidents in the industries but also increase the productivity and also Reduces the economical loss and over it enhance the reputation of the industries.

**Keywords**— Health-safety in industries, Industrial Hygienic, Factor of Hygienic

### I. INTRODUCTION

An industrial safety system is a counter system which is in any toxic plants such as oil and gas plants and nuclear plants These are used prevent the human plants near the industries and also the environment, these system is going to beyond the protection.

This system is not use for controlling the process itself but also control the protection. These safety system are mostly merged under only one system which is called integrated control and safety system (ICSS).Industrial accidents are the one of the biggest issues in the world. In India from the year 1988 to 2015 there are more than 3 million people have died in industrial accident because those industries have no proper safety and control measures to Prevent the accident .To prevent such accident in world. There is an organization form by united nations in this organization there are 162 members.(countries) Founded on 23 February 1947, the organization promotes worldwide proprietary, industrial and commercial standards. It is headquartered in Geneva , Switzerland ,this organization is known as ISO (**I**nternational **O**rganization for **S**tandardization).

This organization have some standards on which every industry must follow for the safety of living beings and these standards also decrease industrial accidents. There are three categories for membership of ISO these are:-

1. These members are the national bodies who considered as the most representative standard bodies in the country These are the only members of ISO who have right to vote in ISO
2. Correspond members are countries that do not have their own standards organization. These members are informed about ISO's work, but do not participate in standards programs
3. Subscribe countries are countries with small economical power .They pay to reduced membership fee, but they can follow the development of standards.

### II. SAFETY AND SAFETY SYSTEM

#### Health-Safety In Industries

Every year most of the workers injured ,killed or ill because of exposure to harmful substance in the industries ,especially in chemical ,beverage and pharmaceutical industries. these industries are important for the human welfare but in these industries incidents can cause living life .if there is no safety instruments they it can cause cancer, asthma or can many other diseases .from which health issue created in such industries.

#### Process safety system(PSS)

It is the system which is mainly focus on explosions ,fire and chemical release accident(In Chemical Industries).These system refers to the precautions of unintentional release of chemical ,fire and explosions .In process safety system the precaution of leaks ,spills ,instrument malfunction, high-low(temperature and pressure) and metal fatigue or other same conditions .This safety system can focus on design engineering of facilities ,maintenance of instruments and alarm system(control points).

#### Safety Shutdown System(SSS)

The safety shutdown system which is based on two system i.e .,

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**Katrin Zwirgmaier**



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