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**MATRIC NO:15/ENG01/005**

**CHEMICAL ENGINEERING**

**CHE512: LOSS PREVENTION AND INDUSTRIAL LAW**

**ASSIGNMENT**

1. Briefly discuss hazard operability technique

Hazard operability techniques identifies hazards and operability problems in a process plant. It is a tool for the identification of hazards due to process parameter deviations. The concept involves investigating how the plant might deviate from the design intake. Several experts with different areas can interact and identify more problem when working together than working separately. They review the plant operation in a series of meetings during which multidisciplinary team methodically brainstorms the plant design.

A HAZOP study is performed by an interdisciplinary team of experts including engineers, chemists, facilities managers and safety officers to identify procedural risks, process hazards, and design flaws.

1. State the significance of HAZOP Technique

HAZOP is done to investigate how the system or plant deviate from the plant design intent and create risk for personnel and equipment and operability problems. With the investigation, safeguard and improvement recommendations are proposed to lower the risk of identified hazards and operational failure from occurring.

It also looks at processes that might prevent the facility from running as efficiently as it should.

1. With the aid of a block diagram, list the components of hazard operability

B.

WHAT IF

D.

CONSEQUENCE

C.

CAUSE

A.

DEVIATION

5

SAFEGUARD

4

RISK MANAGEMENT

3

SCENERIO

2

RISK

1.

PROCESS