ASSIGNMENT

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MATRIC NO: 15/ENG01/21

COURSE CODE: CHE 512

COURSE TITLE: LOSS PREVENTION AND INDUSTRIAL LAW

QUESTION:

1. Briefly discuss hazard operability technique
2. State the significance of hazop technique
3. With the aid of a block diagram, list the components of hazard operability.

ANSWERS

1. Hazard and Operability is a technique used to identify potential hazards and functional flaws in existing or planned plant systems. Its purpose is to reduce risk and ensure the safety of workers in plant environments. It is primarily used to study complex operational hazards and functions in chemical processing plants but is also used in nuclear, water, sewage, and treatment plants. And also involves investigation of how the plant might deviate from the design intent.
2. Significance of Hazop technique includes; i) The completeness and accuracy of drawings and other data used as a basis for the study. ii) The technical skills and insights of the team. iii) The ability of the team to use the approach as an aid to their imagination in visualizing deviations, causes, and consequences. iv) The ability of the team to concentrate on the more serious hazards which are identified.
3. Component of hazard operability

Define system, sub systems and nodes

Is consequence possible

Assess cause, consequences and safeguards

Define process parameter

Propose recommendation

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