

Assignment – 1 (Theory)

Course: Industrial Safety (OME-501)

Full Marks: 70

1. What do you mean by industrial safety? What are the objectives of industrial safety? Briefly explain the Heinrich theory of accident.
2. What do you mean by Hazard Triangle? What are different components of hazard triangle? Briefly explain about the hazard triangle theory with an example.
3. What do you mean by hazard actuation? Elaborately explain the Hazard-Mishap Actuation theory with an example. Briefly explain about actuation transition and entropy risk model.
4. What do you mean by hazard causal factors? Elaborately explain about three different models of hazard causal factor model.
5. What do you mean by safety domain ontology? Construct and briefly explain about the safety domain ontology with an example considering the concept of hazard triangle theory. Briefly explain about preventive and mitigative risk control systems (RCS).
6. Elaborately explain about individual risk and societal risk. What are the differences between them? Briefly explain about risk assessment technique. With an example briefly explain the importance of risk perception.
7. What do you mean by prevention through design (PtD)? What are the importance of PtD in industrial safety? Briefly explain the steps of PtD.