
DHA AND PHA

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Keywords Spiritual Safety, Process Safety, Chemical Engineering, Risk Assessment

Learning Outcomes

- Differentiate between a Process Hazards Analysis (PHA) required by PSM and a Design Hazards Analysis (DHA).
- Understand the regulatory requirements for PHA under OSHA 1910.119, including team composition and revalidation schedules.
- Recognize the role of “Safety Action Requests” in tracking and implementing recommendations from these analyses.

Reading

- Foundations of Spiritual and Physical Safety: with Chemical Processes; Chapter 5, Sections 2.4 through the end of the chapter.

Action Items

1. Explain the primary differences between a Design Hazards Analysis (DHA) and a Process Hazards Analysis (PHA).
2. Personal Reflection: Why might a company choose to implement an expensive engineering control during the design phase rather than a cheaper administrative control later?.
3. What ownership should you or do you anticipate shouldering when working in a chemical processing plant?