

# Task Performance Hazard Analysis

### Instructions:

- 1) Make a HAZOP (Hazard and Operability) analysis on your previously assigned case study.
  - A. Beirut Explosion
  - B. Miami Bridge Collapse
  - C. Oklahoma Oil Rig Explosion
  - D. Star City Fire
  - E. Binondo Building Collapse
  - F. Kentex Manufacturing Fire
- 2) Write a proposal on safety procedures that could help prevent such disasters from recurring.
- 3) Use the format below for your final output.

## **Hazard Analysis**

HAZOP Team Members:						Section:				
INFORMATION ADOLIT THE INCIDENT										
INFORMATION ABOUT THE INCIDENT										
Date of Incident:						Location of Incident:				
Description of Incident:										
HAZOP ANALYSIS										
Guide-			Consequen	2000	Safeguards	Comments	Action	Allocated		
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word			causes					required	ιυ.	
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PROPOSAL										

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### **Rubric for Scoring:**

A. HAZOP Analysis 60 pts

a. Content (40 pts)

b. Accuracy (20 pts)

B. Proposal 40 pts

100 pts

#### \*Reading List:

- 1) Cipres, F. (2019, December). *Fire hits Star City in Pasay*. ABS-CBN News. <a href="https://news.abs-cbn.com/news/10/02/19/fire-hits-star-city-in-pasay">https://news.abs-cbn.com/news/10/02/19/fire-hits-star-city-in-pasay</a>
- 2) De Vera, E., & Noriega, R. (2019, April 11). *Decades old building collapses in Binondo*. Manila Bulletin. <a href="https://mb.com.ph/2019/04/11/decades-old-building-collapses-in-binondo/">https://mb.com.ph/2019/04/11/decades-old-building-collapses-in-binondo/</a>
- 3) Kaplow, L., Sherlock, R., & Homsi, N. (2020, August 7). *Beirut explosion looks like an accident and a sign of the country's collapse*. npr. <a href="https://www.npr.org/2020/08/07/899776352/beiruts-explosion-looks-like-an-accident-and-a-sign-of-the-country-s-collapse">https://www.npr.org/2020/08/07/899776352/beiruts-explosion-looks-like-an-accident-and-a-sign-of-the-country-s-collapse</a>
- 4) NDRRMC. (2015, May). Progress report re fire incident in Valenzuela City. https://ndrrmc.gov.ph/attachments/article/1452/Fire Incident in Valenzuela City 14MAY2015.pdf
- 5) OSHA National Office Washington, D.C, & Ayub, PE, SE, M. (2019, July). *Investigation of March* 15, 2018 Pedestrian bridge collapse at Florida International University, Miami, FL. <a href="https://www.osha.gov/sites/default/files/2019-12/2019">https://www.osha.gov/sites/default/files/2019-12/2019</a> r 03.pdf
- 6) U.S. Chemical Safety and Hazard Investigation Board. (2019, June). *Gas well blowout and fire at Pryor Trust Well 1H-9* (No. 2018-01-I-OK). https://www.csb.gov/assets/1/20/pryor trust report final for publication.pdf?16477

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