

**IMPLEMENTATION OF HAZARD ANALYSIS AND RISK ASSESSMENT
TO ENHANCE WORKPLACE SAFETY AT PT XYZ**

By

Tito Hayyu Abdillah Nugroho

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SWISS GERMAN UNIVERSITY

The Prominence Tower

Jalan Jalur Sutera Barat No. 15, Alam Sutera

Tangerang, Banten 15143 - Indonesia

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.



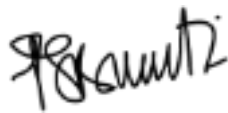
Tito Hayyu Abdillah Nugroho

Student

23/07/2024

Date

Approved by:

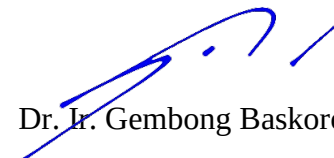


Ir. Triarti Saraswati, M.Eng.

Thesis Advisor

23 Juli 2024

Date



Dr. Ir. Gembong Baskoro, M.Sc., IPU

Thesis Co-Advisor

23 Juli 2024

Date



Dr. Maulahikmah Galinium, S.Kom, M.Sc

Dean

23 Juli 2024

Date

Tito Hayyu Abdillah Nugroho

ABSTRACT

IMPLEMENTATION OF HAZARD ANALYSIS AND RISK ASSESSMENT TO ENHANCE WORKPLACE SAFETY AT PT XYZ

By

Tito Hayyu Abdillah Nugroho, Students

Ir. Triarti Saraswati, M.Eng., Advisor

Dr. Ir. Gembong Baskoro, M.Sc., IPU, Co-Advisor

SWISS GERMAN UNIVERSITY

Workplace safety is a top priority in the mining industry, where the high risks for workers demand effective strategies to prevent accidents. PT XYZ, as a manpower service provider for PT ABC in the mining sector, faces significant challenges related to contract sustainability and their safety performance. This research aims to analyze and improve workplace safety at PT XYZ. The study employs the DMAIC method, which stands for Define, Measure, Analyze, Improve, and Control. Data were collected from PT XYZ's accident records for the year 2022. These workplace accidents were then identified for their causative factors using the HIRA approach, which stands for Hazard Identification and Risk Assessment. From the HIRA data, analysis was conducted using a Fishbone Diagram to develop appropriate workplace safety programs to prevent future incidents. The results of this study are expected to provide a deeper understanding of the effectiveness of existing safety programs and identify areas needing improvement. The practical implications of these findings include raising safety awareness among workers, strengthening existing policies and procedures, and integrating technology and innovation into safety management. Overall, this research contributes to understanding how the implementation of HIRA can play a key role in creating a safe and sustainable work environment.

Keywords: Workplace Safety, Hazard Analysis, Risk Assessment, Mining Industry, Contract Sustainability

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DEDICATION

This thesis is dedicated to:

My Beloved Family,

For their unwavering support, encouragement, and endless love. Your sacrifices and belief have been the foundation of every achievement I have attained.

Advisors and Mentors,

For their guidance, wisdom, and endless patience. Your expertise and insights have played a crucial role in shaping this work.

Friends and Colleagues,

For the friendship, support, and camaraderie that made this journey unforgettable. Your encouragement has been a source of strength for me.

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For the opportunities and resources provided for this research. Your cooperation and support have been essential to the completion of this study.

To Everyone Who Believes in Me,

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Thank you for your unwavering support and for helping me turn this dream into reality.

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I hope the results of this research will contribute beneficially to the advancement of knowledge and the mining industry as a whole.

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