

ABSTRACT

Occupational Safety and Health issues at PT XYZ, especially in the Forest Development Department, are a major concern due to the high number of work accidents that occur. These accidents are caused by various factors, including a lack of awareness of the importance of Occupational Safety and Health (OHS). This calls for a comprehensive evaluation of potential hazards and risks in the work environment. This study aims to identify hazards, assess the level of risk present, and recommend effective control measures.

In solving this problem, the HIRADC (Hazard Identification, Risk Assessment, and Determining Control) method was applied as a methodological approach to identify hazards, conduct risk assessment, and formulate appropriate control measures. This method involves data collection through field observations, interviews with workers, and analysis of safety-related documents. Risk assessment is conducted by combining likelihood and severity parameters based on a risk matrix.

The results of this study show that there are fifty-four potential hazards in the Forest Development Department. Based on the risk assessment, thirteen potential hazards are classified in the high risk category, thus requiring immediate mitigation actions. Based on this classification, this study formulated several control recommendations structured based on the hierarchy of controls, which includes aspects of elimination, substitution, engineering controls, administrative controls, personal protective equipment.

*The implication of this research is to contribute in improving OHS risk management at PT XYZ. The control recommendations provided can be the basis for management in designing a better OHS program, so as to reduce the number of work accidents, achieving the zero accident target. Keywords - **[Occupational Safety and Health (OHS), HIRADC, Hazard Identification, Risk Assessment, Risk Control]**.*