ABSTRACT

Workplace accidents are unexpected and undesired events that can cause physical injuries and fatalities among workers. This issue also occurs at CV XYZ, a company involved in the repair, modification, and production of heavy equipment components and mining. Workplace accidents at CV XYZ are caused by various hazards, including workers not using Personal Protective Equipment (PPE), disorganized work areas, and inadequate safety equipment. The hazards present on the production floor of CV XYZ pose varying levels of risk, ranging from low to extreme. Based on these issues, this study aims to design an Occupational Health and Safety (OHS) management procedure to minimize the risk of workplace accidents on the production floor.

The study begins with hazard identification and risk assessment of production activities using the Hazard Identification, Risk Assessment, and Risk Control (HIRARC) approach. The results from hazard identification and risk assessment are used to determine risk control measures through the hierarchy of controls approach, aiming to minimize the risk of workplace accidents. The outcomes of the risk control measures are then integrated into the OHS management process using the Business Process Improvement (BPI) approach, which is utilized to eliminate errors and enhance the process for greater effectiveness. The OHS management design complies with the requirements of Government Regulation No. 50 of 2012, Articles 9, 10, 11, 14, and 15, regarding OHS management.

This study resulted in an OHS Management SOP consisting of 9 activities supported by related documents as guidelines for OHS Management. The OHS Management SOP documents include format for the safety program (hazard identification, risk assessment, and control measures), OHS inspection checklists, inspection report forms, incident and handling forms, and job safety analysis forms.

Keywords - [OHS Management, Risk, Workplace Accidents, Business Process Improvement]