

Evaluation of Risk Control to Installation of Maintenance Access Platform 1,19 Ton Using a HIRARC Method

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ABSTRACT

Occupational Safety and Health Management System (OSHMS) is an important factor that every company should be aware of to prevent work accidents. One of the most common methods used in managing OSHMS is HIRARC (Hazard Identification, Risk Assessment, and Risk Control). The method is used in research evaluating risk control on the work of installation maintenance access platform carried out by PT Mesitechmitra Purnabangun with the aim of the research is to obtain potential hazards and risk value, risk control measures on the job and recommend priority schemes in the risk control of the maintenance access platform installation. The research procedure is carried out using purposive sampling techniques, with criteria of workers directly involved in the installation of maintenance access platform. A total of 5 respondents consisted of HSE officer, project engineer, rigger and 2 scaffolders. Once the respondent is selected, a questionnaire is created to collect data on the risk value of each respondent. The results showed that there were 53 potential hazards from 9 jobs and 18 activities. Of these potential hazards, 16 categories are classified as low risk, 25 categories as medium risk, 8 categories as high risk, and 4 categories as very high risk. The majority of controls that have been done include substitution, administration, and use of APD. Some controls are also done through engineering and elimination engineering. The priority risk control scheme generated in the study is the potential hazard code of 11A, 12C, 14A and 18A based on the highest risk levels and frequent risks.

Keyword : HIRARC, Installation, K3, Risk Control