

## ABSTRACT

**Background :** Risk management is a key element in the prevention and control of hazards and risks in the warehouse area. In carrying out its functions, activities in the warehouse area can pose dangers and risks to workers and the work environment. The results of initial observations, researchers found 5 activities in the warehouse area of PT X that have the potential to be dangerous but have not been included in the risk management update book. So it is necessary to carry out a hazard analysis, assessment and risk control. **Objective:** The purpose of this study is to conduct hazard analysis, risk assessment and control in 5 work activities in the warehouse area of PT.X 2021. **Methods:** This research is a semi-quantitative study, using interview and observation techniques. The informants consist of 1 HSE, 1 warehouse operator and 2 QC analysts. Hazards and risks are analyzed using the HIRARC table and risk assessment refers to the theory of AZ/NZS 4360:2004. **Results:** From 5 activities in the warehouse area of PT.X 2021, 29 hazards were found. The initial risk assessment obtained as many as 2 very high risk hazards, 9 high risk hazards, and 16 medium risk hazards and 2 other hazards with low risk levels. Controls carried out at PT X include engineering controls (providing nets, safety boxes, shelf indicators), administrative controls (SOP, training, safety conduction, etc.) and PPE (helmets, safety shoes, safety belts, etc.). The residual assessment obtained 23 low risk hazards and 6 medium risk hazards. **Conclusion:** It is expected that PT.X, especially in the warehouse area, can increase OHS opportunities such as adding to the discussion of hazards and risks in each SOP, holding K3 training regarding the hazards of each work activity and adding PPE or other supporting tools.

**Key Keyword :** WAREHOUSE AREA, HIRARDC, AZ/NZS 4360:2004,

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**Latar Belakang :** Manajemen risiko merupakan elemen pokok dalam pencegahan dan pengendalian bahaya dan risiko di area gudang. Dalam melakukan fungsinya, aktivitas-aktivitas di area gudang dapat menimbulkan bahaya dan risiko bagi pekerja serta lingkungan kerja. Hasil observasi awal, peneliti menemukan 5 aktivitas di area gudang PT X yang berpotensi bahaya namun belum termuat dalam buku pembaharuan manajemen risiko. Sehingga perlu dilakukan analisis bahaya, penilaian dan pengendalian risikonya. **Tujuan :** Tujuan dari penelitian adalah melakukan analisis bahaya, penilaian dan pengendalian risiko pada 5 aktivitas kerja di area gudang PT.X 2021. **Metode :** Penelitian ini termasuk penelitian semikuantitatif, menggunakan teknik wawancara dan observasi. Informan terdiri 1 orang HSE, 1 operator gudang dan 2 analis QC. Bahaya dan risiko di analisis menggunakan tabel HIRARC dan penilaian risiko mengacu pada teori AZ/NZS 4360:2004. **Hasil :** Dari 5 aktivitas di area gudang PT.X 2021 ditemukan sebanyak 29 bahaya. Penilaian risiko awal didapatkan sebanyak 2 bahaya tingkat risiko sangat tinggi, 9 bahaya tingkat risiko tinggi, dan 16 bahaya tingkat risiko sedang serta 2 bahaya lainnya dengan tingkat risiko rendah. Pengendalian yang dilakukan di PT X antara lain *engenering* kontrol (penyediaan jaring, *safety box*, indikator rak), administrasi kontrol (SOP, pelatihan, *safety conduction,dll*) dan APD (helm, *safety shoes, safety belt,dll*). Penilaian sisa didapatkan 23 bahaya tingkat risiko rendah dan 6 bahaya tingkat risiko sedang. **Kesimpulan :** Diharapkan PT.X khususnya di area gudang dapat meningkatkan peluang K3 seperti menambah pembahasan bahaya dan risiko di dalam setiap SOP, mengadakan pelatihan K3 mengenai bahaya risiko setiap aktivitas kerja dan penambahan APD ataupun alat penunjang lainnya.

**Kata Kunci :** Area Gudang, HIRARDC, AZ/NZS 4360:2004