

## ABSTRAK

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### “ANALISIS RISIKO KESELAMATAN DAN KESEHATAN KERJA DENGAN METODE HIRARC PADA PROSES PRODUKSI DI CV. JUKE ABADI TAHUN 2021”

xiv+ 67 Halaman+ 7 Gambar+ 15 Tabel+ 13 Lampiran

Perusahaan CV. Juke Abadi merupakan industri pembuatan tahu. Proses produksi CV. Juke Abadi belum menerapkan K3 dengan baik dan terdapat risiko K3. Sirkulasi udara yang kurang, kebisingan dari mesin *boiler*, postur tubuh pekerja tidak ergonomis, dan tidak menggunakan APD saat bekerja dapat berpotensi menimbulkan kecelakaan kerja. Tujuan penelitian ini untuk menilai analisis risiko K3 dengan metode HIRARC pada proses produksi CV. Juke Abadi.

Jenis penelitian deskriptif. Pengumpulan data dengan observasi dan wawancara. Sampel yang digunakan adalah seluruh karyawan pada proses produksi sebanyak 21 orang. Analisis data dijelaskan secara deskriptif dengan menggambarkan risiko K3 menggunakan metode HIRARC melalui 3 tahapan yaitu identifikasi bahaya K3, penilaian risiko K3, dan pengendalian risiko K3.

Hasil penelitian bahaya fisik sebesar 50% (sedang) berupa kebisingan, suhu/temperature panas, getaran. Bahaya kimia sebesar 33,33% (sedang) berupa bahan kimia bersifat mudah terbakar dan oksidasi. Bahaya ergonomi sebesar 83,33% (tinggi) berupa posisi duduk dan berdiri tidak netral, beban kerja berlebih, jam kerja melebihi 8 jam dalam sehari. Penilaian risiko didapatkan tingkat risiko kategori sedang (*Medium*). Pengendalian administrasi berupa rotasi kerja dan pelatihan kerja, sedangkan pengendalian APD berupa pelindung kaki.

Analisis risiko K3 dengan metode HIRARC didapatkan penilaian yaitu bahaya K3 paling dominan adalah bahaya ergonomi sebesar 83,33% (tinggi). Penilaian risiko K3 dengan tingkat risiko kategori sedang (*Medium*) sebesar 57,14%. Pengendalian administrasi sebesar 33,34% dan pengendalian APD sebesar 12,5% sehingga, dapat dikatakan belum terlaksana (0%-49%). Saran yang diberikan kepada perusahaan yaitu melakukan pengukuran faktor eksternal lingkungan, pengawasan dan evaluasi risiko, membuat SOP pengendalian risiko K3 dan penyediaan APD untuk pekerja.

Kata Kunci : K3, HIRARC, Identifikasi bahaya K3, Penilaian risiko K3, Pengendalian risiko K3

Daftar Bacaan : 15 buku (2008-2019)

## ABSTRACT

Bella Rossalama Irwanda

“OCCUPATIONAL HEALTH AND SAFETY RISK ANALYSIS USING THE HIRARC METHOD ON PRODUCTION PROCESS AT CV. JUKE ABADI IN 2021”

xiv+ 67 Pages+ 7 Picture+ 15 Tables+13 Attachments

CV.Juke Abadi is an industry of tofu manufacturing. Industry CV. Juke Abadi has not implemented K3 properly in the production process and there are OHS risk caused by environmental conditions and unsafe actions by its workers. Lack of air circulation, noise from the boiler machine, non-ergonomic posture of workers, and not using PPE at work can potentially cause work accident. The purpose of this research is to assess Occupational Health And Safety Risk Analysis Using The HIRARC Method On the Production Process at CV. Juke Abadi.

The type of research in this paper is descriptive. The primary data is collected by observation and interviews. The sample used is all employees in the production process, 21 people in total. Data analysis is explained descriptively by describing OHS Risk using the HIRARC method through 3 stages including, hazard identification, risk assessment and risk control.

The result of the research found that the identified physical hazards by 50% (*Moderate*) are noise, heat temperature, vibration. The identified chemical hazard by 33,33% (*Moderate*) are flammable and oxidizing chemicals. The identified ergonomic hazards by 83,33% (*High*) are non-neutral sitting and standing positions, excessive workload, work hour exceeding 8 hours a day. The risk assessment have categorized the risk level as moderate (*Medium*). Administrative control is in the form of job rotation and job training, while the control of PPE is in the form of foot protection.

The Analysis of Occupational and Safety Risk Using the HIRARC Method have found that the most dominant K3 hazard was ergonomic hazard by 83,33% (*High*). The risk assessment is categorized as moderate risk level by 57,14% (*Medium*). The administrative control is 33,34% and PPE control is 12,5%. Therefore, it can be said that it has not been implemented (0%-49%). The advice given for company is to take measurement of external environmental factors, supervision and risk evaluation, make SOP risk control K3 and provision of PPE for workers.

Keywords : K3, HIRARC, Hazard Identification, Risk Assessment, Risk Control

Reading List : 15 Books (2008-2019)