

ABSTRAK

Industri furnitur kayu memiliki tingkat risiko kecelakaan kerja yang tinggi, terutama pada proses pemotongan yang melibatkan mesin berkecepatan tinggi, paparan debu kayu, serta beban fisik. CV. Qirana mencatat enam kecelakaan kerja pada periode September 2023–April 2024 di area *cutting* sehingga diperlukan analisis risiko yang sistematis. Penelitian ini bertujuan untuk mengidentifikasi bahaya, menilai tingkat risiko, dan merancang usulan pengendalian risiko pada stasiun pemotongan menggunakan metode *Hazard Identification, Risk Assessment, and Determining Control* (HIRADC). Data diperoleh melalui observasi, wawancara dengan kepala produksi. Penilaian risiko dilakukan dengan mengkombinasikan nilai *Likelihood* dan *severity* untuk menentukan *risk score*. Hasil penelitian menunjukkan adanya bahaya mekanik, fisik, dan ergonomi dengan tingkat risiko mulai dari rendah hingga ekstrem. Usulan pengendalian disusun berdasarkan hirarki kontrol. Penelitian ini bertujuan untuk mengidentifikasi dan menurunkan tingkat risiko kerja pada area pemotongan CV. Qirana.

Kata kunci: K3, HIRADC, risiko kerja, pengendalian risiko, furnitur kayu.

ABSTRACT

The wood furniture industry poses significant occupational safety risks, particularly during cutting processes that involve high-speed machinery, exposure to wood dust, and substantial physical loads. Following six recorded accidents in the cutting area of CV. Qirana between September 2023 and April 2024, a systematic risk analysis became imperative. This study utilizes the Hazard Identification, Risk Assessment, and Determining Control (HIRADC) method to identify hazards, assess risk levels, and design control measures for the cutting station. Data were obtained through field observations and interviews with the head of production. The risk assessment was performed by combining likelihood and severity values to calculate the risk score. The findings revealed mechanical, physical, and ergonomic hazards ranging from low to extreme risk levels. Consequently, risk control measures were proposed based on the hierarchy of controls to identify and reduce occupational risks in the cutting area of CV. Qirana.

Keywords: OHS, HIRADC, work risk, risk control, wood furniture.