

ABSTRAK

PT. General Dinamik adalah perusahaan yang bergerak dibidang teknik manufaktur yang terdiri dari dua proses permesinan dan fabrikasi, pada penelitian ini berfokus pada 3 proses fabrikasi yaitu proses *welding*, *grinding* dan *painting*. Penelitian ini bertujuan untuk mengidentifikasi risiko kecelakaan kerja dan meminimalkan tingkat risiko dari suatu potensi bahaya yang ada pada proses pembuatan *trolley* khususnya dibagian *welding*, *grinding* dan *painting* di PT. General Dinamik. dengan menggunakan metode *Hazard Identification, Risk Assessment and Determining Control* (HIRADC). Hasil yang didapat dari penelitian ini menunjukkan bahwa pada proses *grinding* terdapat 4 bahaya *high risk*, 7 bahaya *moderate risk*, dan 4 bahaya *low risk*, pada proses *welding* terdapat 2 bahaya *high risk*, 9 bahaya *moderate risk*, dan 3 bahaya *low risk*, pada proses *painting* terdapat 1 bahaya *high risk*, 4 bahaya *moderate risk*, dan 2 bahaya *low risk*. Berdasarkan hirarki risiko pengendalian yang telah diterapkan adalah pengendalian secara rekayasa teknis, administratif, dan alat pelindung diri, dengan adanya pengendalian risiko yang telah diterapkan dapat menurunkan presentasi level risiko. Rekomendasi pengendalian yang dapat diterapkan oleh perusahaan adalah menerapkan 5S (*Seiri, seiton, seiso, seiketsu, shitsuke*), *safety talk*, *safety sign*, menambah alat pelindung diri seperti pakaian pelindung/ *pelindung harness*, dan *ear plug*.

Kata Kunci: Keselamatan dan Kesehatan Kerja, Risiko, *Hazard Identification, Risk Assessment and Determining Control* (HIRADC).

ABSTRACT

PT. General Dinamik is a company engaged in manufacturing engineering which consists of two processes, machining and fabrication. In this study, the focus is on three fabrication processes, namely grinding, welding, and painting processes. This study intends to identify the risk of work accidents and minimize the risk level of a potential hazard that exists in the trolley manufacturing process, especially in the grinding, welding, and painting sections at PT. General Dinamik by using the Hazard Identification, Risk Assessment, and Determining Control (HIRADC) method. The results obtained from this study indicate that in the grinding process, there are four high-risk hazards, seven moderate-risk hazards, and four low-risk hazards, in the welding process there are 2 high-risk hazards, nine moderate-risk hazards, and three low-risk hazards, in the welding process. In painting, there are a high-risk hazard, four moderate-risk hazards, and two low-risk hazards. Based on the risk hierarchy, the controls that have been implemented are technical, administrative, and personal protective equipment controls, with the risk controls that have been implemented, the risk level presentation can be reduced. Control recommendations that can be implemented by companies are implementing 5S (Seiri, Seiton, Seiso, Seiketsu, dan Shitsuke), safety talk, safety signs, and adding personal protective equipment such as protective clothing/harness protectors, and ear plugs.

Keyword: Occupational Health and Safety, Risk, Hazard Identification, Risk Assessment and Determining Control (HIRADC)