ABSTRACT

Safety signs are useful equipment to help protect workers, contractors and company guests who are in the production environment. This study was conducted to determine the need to design safety signs and produce a safety sign design that has taken into account the results of the safety signs assessment and refers to the ANSI Z535 standard. Problems that occur in the Galvanized department of PT. Kunango *Jantan is still a work accident and this can be proven by the historical data on work* accidents in the January 2019-March 2020 period. The number of incidents in that period was 9 incidents. There are worker complaints about the dangers posed by chemicals in the dyeing process. These incidents must be minimized so as not to cause the danger of accidents that will occur in the future. This hazard control begins with an analysis of the risk control hierarchy in accordance with the OHSAS 18001:2007 standard for each incident. After knowing the results of the preliminary assessment of the SM-K3 existing control program and considering the results of the risk control hierarchy analysis, it can be seen that on the galvanized department production floor, there are no K3 signs related to hazard events that have occurred and have not taken into account the results of the safety signs assessment carried out. refers to the ANSI Z535 standard. Whereas K3 signs have an important role in preventing work accidents and occupational diseases and reminding workers, contractors, or company guests about potential hazards and how to avoid hazards in the work area. Based on this analysis, this study was conducted to determine the need for safety sign design and to produce a safety sign design that has taken into account the results of the safety signs assessment and refers to the ANSI Z535 standard. The proposal will be installed in areas that are at risk of accidents taking into account the data needs from the ANSI Z535 standard, anthropometric data on body height dimensions and eye height and field conditions. The results of the design are in the form of safety sign specifications that are in accordance with verified needs. So it is hoped that the risk of work accidents in the galvanized production process can be controlled and the implementation of the process can avoid work accidents.

keyword: hot dip galvanized, risk control hierarchy, Safety signs, Safety signs assessment.