ABSTRACT

Educational facilities have a high risk of work accidents. One of them is the condition of the production system laboratory work area where there is a potential hazard that poses a risk of work accidents for students and lecturers. This research is to identify potential hazards, analyze the value of the risk level, and find out the control measures that can be applied to the production system laboratory of the Telkom Institute of Technology Surabaya Higher Education using the HIRADC (Hazard Identification Risk Assessment and Determining Control) method. The results of the identification of potential related problems are 20 potential risks, 2 potential risks with a low value (10%), 14 potential risks with a moderate value (70%), and 4 potensial risk with a high value (20%). The controls that have been carried out in the Production Systems Laboratory are 12 (40%) engineering controls, 8 (60%) administrative controlsl. After doing effort to control potential risk, the hazard potensial, a high risk value of 4 (20%) becomes (0%), a medium number of 14 (65%) becomes 0 (0%), and a potential with a low value of 2 (10%) becomes 20 (100%).

Keyword: HIRADC, Risk Potential Hazards, Laboratory