

ABSTRACT

Work procedure is such written standard/guidance about the method or step that is standardized and must be followed through to finish such specific work. The purpose of this research is to analyse the effectiveness of work procedure in preventing any accident in the welding process using acetylene in GKRB of PT KAI Balai Yasa Gubeng Surabaya.

Sample in this research was collected by purposive sampling method, namely the worker who participated in the work procedure training of 2007 and the worker who not participated in the worker procedure training of 2007. The research was down descriptively with cross sectional approach. The main variable in this research work procedure and accident number, while the supporting variable were worker's age, work period, work type, and danger potential.

The research result indicated the *frequency rate* (FR) of non training worker was 126 times and *frequency rate* (FR) training worker was 56 times. It means the possibility of accident occurrence per year in the non training worker than training worker. Through JSA method it was known higher than work procedure that was implemented by worker that participated in the training.

It can be concluded that worker procedure that was implemented by non training worker is not effective enough to decrease the accident number. That in effectiveness is caused by not existence of review and supervision of work procedure implementation by management. Company department recommended to made health safety environment (HSE) department to monitored the application of work procedure and controlled the risk from aplicated procedure to decrease number of accident.

Keyword: effectiveness work procedure, job accident PT Balai Yasa Gubeng Surabaya