

## ORAL PRESENTATION 4

## Analysis of Potential Safety Hazard on Metal Holder Industries

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## Article Info

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## ABSTRACT

Fifty six percent of the population on Cepogo working as metal craftsmen. The process of making metal crafts through several stages; First: pattern making is drawing or printing pattern on aluminium plate. Then pattern is cut according to mold using welding, at this stage generated a lot of metal dust. The next is forming a texture by beating on the aluminium plate continuously, that produced high impulsive noise around 105 dBA or exceeds the Threshold Limit Value. Third stage: grafting, to be the desired form of craft. The last is finishing, to perfect the shape and coloring of handicrafts using H<sub>2</sub>SO<sub>4</sub> and HNO<sub>3</sub> which is irritative so that cause the dermatitis contact cases among the workers. This activity was a combination of research activities as the first step to analysis the potential hazard then followed by implementation steps through community service activities. The type of research was descriptive with observational and participatory approach. While the data collection observed the work environment and Focus Group Discussion (FGD). Based on the results can be seen that the workplaces have serious safety problems include: high impulsive noise, metal dust, the yuge number of irritating chemicals used, doing jobs at risk such as: welding and grinding. Besides, neither the entrepreneur nor the worker has understood the importance of safety program, They did not indentifying the hazards in the workplace or controlling the work environment appropriately. Furthermore the Cepogo's Health Center does not have health surveillance system yet, so that the working health status of the workers in the Cepogo metal industry was not well monitored. Suggestion given include administrative and personal control approach like: make the safe work permit, conduct the OSH training program, arrange the OSH management booklet to conduct induction, provide Personal Protective Equipment, establish the manual handling of irritating chemicals and establish the health surveillance system.

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