

# Risk Management Safety and Health Industries in the Village Blacksmith Craftsman Mekarmaju, Sub Pasirjambu, Bandung Regency

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**Abstract**—Industrial safety and health are important in business activities. Almost all entrepreneurs and workers, currently still ignoring the safety and health problems of the industry. This is due to technical and economic factors. By neglecting it can lead to large risks such as disability, financially causing even death. The forms of risk are now suffered by workers such as shortness of breath, danger to the eye, and complaints on joints and bones. So that risk management to reduce risk is necessary, reducing the risk of safety and health of the industry is required the management of personal safety equipment, at the level of its implementation begins with the support and awareness of Industrial safety and health of both government and craftsmen blacksmiths.

**Keywords:** *risk management, security tool management themselves, health risks*

## I. INTRODUCTION

Pasirjambu is one of the sub-districts in Bandung regency where the majority of its citizens carry out blacksmithing activities, both in the form of tools and agricultural tools. Hoes produced by Mekarmaju Village are not only used by farmers around Bandung and Sukabumi Regencies, but also to meet the needs of farmers in other provinces in Indonesia. The hoe produced by the village of Mekarmaju is used by farmers in Kalimantan, Sumatra and several other provinces [1]. The process of making these tools certainly requires energy and expertise in carrying out the blacksmith's activities. Every blacksmith craftsman in bathing activities certainly experiences and will face occupational health and safety risks. The scribe often faces risks such as shortness of breath, blurred vision and even the risk of accidents at work such as bruises, injuries or lives.

Industrial Safety and Health is a problem that has caught the attention of various organizations today because it covers issues in terms of humanity, economic costs and benefits, legal aspects, accountability and the image of the organization itself. All of these things have the same level of importance even though here and there is indeed a change in behaviour, both within the environment itself and other factors that come from external elements of the industry.

All blacksmith SMIs have the same risk, which is related to vision, hearing, sitting position, and others [2]. Workforce protection covers several aspects and one of them is safety protection, the protection intends that workers safely carry out their daily work to increase production and productivity. Manpower must obtain protection from various problems around him and himself that can befall or disrupt him and the implementation of his work.

Industrial safety and health are important in business activities. Almost all employers and workers, currently still ignore the safety and health problems of the industry. This is due to technical and economic factors. Thus, ignorance this can cause great risks such as disability, financial and even death. The current forms of risk suffered by workers include shortness of breath, danger to the eye, and complaints to the joints and bones.

Based on these problems, it can be formulated that the problem that will be examined in this article is how to manage risks that can be carried out by blacksmith craftsmen groups, as well as how support and awareness of industrial safety and health behaviour from the government and blacksmith craftsmen groups.

## II. METHOD

Method used in this research is the sociological, juridical way down directly to the craftsmen of the blacksmith and the community to get the data and information.

## III. RESULTS AND DISCUSSION

### A. *Managing Risks that can be Carried Out by Blacksmith Craftsmen Groups*

Safety and Health Management is a behavioural science that includes social and exact aspects not apart from safety and health responsibilities both in terms of planning and decision making and organization, both accidents, health problems, and environmental pollution must be part of production costs. This management basically looks for and collects operational weaknesses that enable accidents to occur. This can be done by revealing the cause of an accident (the root of the problem),

and examining whether careful control can be carried out or not. Incomplete operational errors, inappropriate decisions, miscalculations, and inappropriate management can lead to the risk of accidents [3].

The blacksmith's activities carried out by blacksmith businesses certainly cannot be separated from health and safety risks in carrying out these activities. This can be shown in the image below.



Fig. 1. Blacksmith activity.

From the picture above, it can be seen that the risks arising from the activities carried out by blacksmith business actors. In addition, the use of personal protective equipment is very minimal to be used by blacksmith craftsmen. Therefore, awareness of industrial safety and health is very minimal. Even if this activity is carried out continuously it will result in high health and safety risks.

The main purpose of health risk management is to reduce risk at a meaningless stage so that it does not cause adverse effects on workers' health. These goals will only be achieved through cooperation between occupational health and safety professionals who assist management in developing and implementing occupational health programs, with employers responsible for ensuring the health and safety of companies at the highest level. Related to the fulfilment of legislation and regulations, prevention of occupational diseases, as well as the improvement of occupational safety and health are the responsibility of employers. Nevertheless, the success of health risk management activities effectively and efficiently is highly dependent on cooperation between various parties involved in occupational health and safety programs, including workers. In this connection, employee participation is an absolute thing that is not only related to increasing knowledge through training, but also ensuring the implementation of health promotion programs and ensuring the success of the program [4].

Risk Management is the process of identifying, analysing, measuring and ascertaining risks and developing strategies to manage these risks and ensure the success of a job. In AS / NZS 4360 of 20014 concerning the risk management process consists of communication and consultation, setting objectives and context, risk management, monitoring and review.

Complaints on respiratory health due to patterns of use of personal protective equipment that is not standard, resulting in dust entering the respiratory tract. As for the eye, this is the majority of blacksmith craftsmen using non-standard eye protection equipment, only using ordinary sunglasses, not radiation-retaining glasses or other things. Resulting in blurred vision. As for the complaints on the back muscles caused by a sitting position that is constantly carried out, without any rest. So that cramps occur in the muscles.

To reduce the risk of work accidents personal protective equipment is needed for each worker. Personal protective equipment is a safety equipment that must be used by workers in every job carried out to maintain the safety and health of workers. The use of personal protective equipment has factors that must be considered, among others:

- Tasty and comfortable when used
- Does not interfere with work tension and does not limit the space for workers
- Providing effective protection against all types of hazards
- Meet aesthetic requirements
- Pay attention to the side effects of using PPE
- Easy in maintenance, right size, right supply and affordable prices

The purpose of using personal protective equipment is:

- Minimize due to work accidents or occupational diseases
- To minimize physical disorders, namely: ears, eyes, skin, dizziness, tiredness
- Secure the inner body; heart, lung, liver and kidney, etc.

According to Darmawi, the benefits of risk management are divided into 5 types, namely [5]:

- Risk management can prevent companies from failing.
- Risk management can support an increase in profits directly.
- Risk management can provide indirect returns.
- Risk management can lead to peace of mind for managers because protection against pure risk is a non-material asset for the company.
- Risk management can protect companies from pure risk because corporate creditors and suppliers like protected companies so as to improve the public image.

*B. Support and Awareness of Industrial Safety and Health Behavior From the Government and the Blacksmith Craftsmen Group*

Etymologically, government and government can be interpreted as follows [6]:

- "Ordering means doing chores. Which means that in it there are two parties, namely the governing has the authority and the governed has compliance with the obligation.
- After adding the prefix "pe" it becomes the government. Which means the body that exercises power rules.
- After adding the suffix "an" to government. It means the actions, methods, things or affairs of the governing body."

For government definition, W.S. Sayre said that the Government in its best definition is an organization of the state that shows and exercises power [7].

Furthermore, according to Samuel Edward Finer, the thing that must be done by the government is that the Government must have continuous activities (process), the country where the activity takes place (state), officials who govern (the duty) and ways, methods and systems (manner, method and system) from the government towards the community [7].

The Executive's duty in administering government is to execute or carry out what has been agreed or decided by the legislative and judicial branches. It can also be said as implementing all policies that have been decided by the legislative and judicial branches. However, because the making of government policy or public policy is not merely a domain or legislative authority, in a modern government it is not uncommon to take its own initiative in scheduling and formulating policies [8].

In making policies and decisions in the regions, the direction of active and positive action by the regional government must be based on the implementation of the public interest. It is the duty of regional government to safeguard these public interests in order to achieve regional expectations in order to strengthen the unity of the nation [9].

The current era of regional autonomy, the government is required to have a vision and leadership of all stakeholders who play a role in efforts to achieve and improve people's welfare. This goal can be achieved through one of the government's efforts namely empowerment. Empowerment can work well with a balance of power that enables the development of broad participation in the life of the nation.

While UMKM Empowerment according to Law Number 20 Year 2008 concerning UMKM is an effort made by the Government, Regional Government, Business World, and the community in synergy in the form of climate growth and business development towards Micro, Small and Medium Enterprises so that they are able to grow and develop into tough and independent business.

Based on the description above, it can be said that the concept of empowerment is an effort to encourage individuals and groups to be able to be independent both in meeting the needs of life and in solving problems. In addition, through direct empowerment efforts will create individuals who have qualified skills that can be quality resources.

#### IV. CONCLUSION

Many blacksmith craftsmen in Mekarmaju village. Many of these Pasirjambu ignore health and safety in blacksmith activities, so that occupational health and safety risks often approach the blacksmith craftsmen. Occupational health experienced by blacksmith craftsmen is a complaint to the back, eyes and breathing. These risks can be overcome by changing habits and thinking patterns that prevent better treatment, and changing habits in blacksmithing activities. The role of the local government in managing safety and health risks is very active through socialization and cooperation with expert institutions in the field of safety and health.

#### ACKNOWLEDGMENT

This article is fully funded by LPPM Universitas Islam Bandung and Faculty of Law, Universitas Islam Bandung (UNISBA), Bandung, Indonesia. Therefore, author would like to express deepest gratitude to faculty for supportive attitude.

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