

## Proactive Strategies for Enhancing Occupational Safety: The Impact of K3L Orientation on Preventing Work Accidents in Construction Projects

Mukhamad Ali Safii<sup>1</sup>, Nufa Visca Amaratya<sup>2</sup>, Rahma Dita Indriani<sup>3</sup>

*Abstract:* Construction projects are inherently risky environments where work accidents can have severe consequences. Occupational Safety and Health (K3L) orientation or safety training plays a crucial role in increasing workforce awareness and understanding of the risks associated with the construction environment. This research aims to explore and analyze the proactive role of K3L orientation in preventing work accidents in construction projects. By examining the effectiveness of K3L orientation programs, this study provides valuable insights into how proactive safety measures can significantly reduce the incidence of work accidents in the construction sector. The implications of these findings can inform the development of further strategies to enhance occupational safety and health practices in construction projects.

*Keywords:* Occupational safety, K3L orientation, safety training, work accidents, construction projects, proactive strategies.

### INTRODUCTION:

The construction industry is known for its complex and hazardous work environments, where accidents can occur swiftly and with serious consequences. In such settings, the importance of proactive safety measures cannot be overstated. Occupational Safety and Health (K3L) orientation programs or safety training sessions are designed to equip workers with the knowledge and skills necessary to identify, assess, and mitigate workplace hazards effectively.

The primary objective of this research is to delve into the proactive strategies employed through K3L orientation programs in preventing work accidents within construction projects. By examining the role of K3L orientation in increasing workforce awareness and promoting safe work practices, this study aims to highlight the significance of proactive safety measures in reducing the incidence of accidents and injuries in the construction sector.

Through a qualitative analysis of K3L orientation programs and their impact on work accident prevention, this research seeks to provide actionable insights for construction industry stakeholders, including employers, safety professionals, and regulatory bodies. The findings of this study can serve as a basis for developing and implementing effective strategies to enhance occupational safety and health practices, ultimately creating safer work environments in construction projects.

### METHODOLOGY

#### Time and place of research

This research was carried out from 23 November 2022 to 2 December 2022 on the Gapura Gap Go Meh construction project which was carried out by PT. Prambanan Dwipka,

project location on Jalan Pasir Panjang, Sedayu Village, South Singkawang District, Singkawang City, West Kalimantan – Indonesia.

### **Research methods**

The methodology used by researchers is interviews, field observations and research data obtained by taking data from 24 project workers who were directly involved in the steel erection and dragon and lion ornament construction projects carried out by PT Prambanan Dwipaka. In this research, the researcher collected all data using research instruments, the researcher went directly to the work location on the project in the research, the researcher made observations, checked K3L data and conducted direct interviews with informants (project workers). The data that is expected to be collected in this research is data related to the implementation of K3L Orientation (safety induction), other events related to occupational safety and health (K3) in the project.

## **RESULTS AND DISCUSSION**

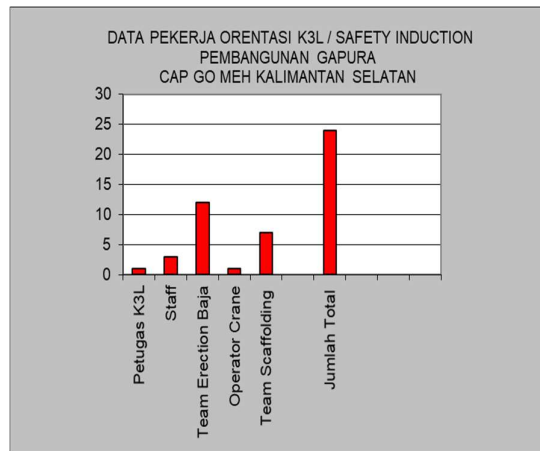
### **Employee Perceptions Regarding K3I Orientation**

Companies or business owners are fully responsible for the safety of their workers. But employees are also fully responsible for understanding and following safe work procedures. This is the foundation of a safe and healthy workplace. K3L orientation is providing information to new employees about company activities, applicable regulations, and providing occupational safety and health information. From the survey conducted on the workforce, they all realized the importance of K3L orientation/safety induction for workers, even though they had already received it in previous projects, because with this K3L orientation they would understand more about environmental occupational safety and health (K3L) that applies to the project. construction. The number of workers involved in this project is 24 people consisting of:

1. Staff = 3 people
2. Steel Team = 12 People
3. Operator = 1 person
4. K3L officer = 1 person
5. Team Scaffolding = 7 People

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Total = 24 people



*Figure 1: Worker Data*

Researchers also conducted interviews with informants (workers), about differences when they worked and had never received K3L/safety induction orientation, from the explanation, workers admitted that before receiving K3L/Safety Induction orientation, workers did not properly understand the occupational health and safety applied in a project. , and after receiving the K3L/Safety Induction orientation, workers claim to understand the purpose of implementing work safety in the workplace, understand safe work methods according to procedures, so that having this K3L orientation will be very helpful and provide a very big role in preventing work accidents, and targets company to Zero Accident at each end of the work can be achieved.

Researchers also see and prove for themselves the behavior of workers in carrying out work activities in accordance with the work safety norms and rules that have been conveyed.

### **Workers' Perceptions in Construction Projects**

Of the number of workers on this project, after research was carried out, there were a total of 24 workers involved in this project activity and all of these workers received K3L orientation or safety induction so that they understand and understand occupational safety and health, all workers here already have work experience on the project. previously and have received a similar K3L orientation, so that they have a fairly good understanding of occupational safety and health at work to prevent work accidents.

Companies through appointed staff representatives such as K3 personnel, supervisors can conduct K3L orientation and K3 training for workers several times a year on a regular basis. No matter the number of times, or how the workforce is structured, it is the employer's responsibility to educate workers about the company's Occupational Health and Safety (K3) policies, procedures and practices, and to train workers in the safest way to perform assigned tasks, Some of the reasons why this K3L orientation is important is that we consider workers::

1. There is still a lack of experience and understanding of K3
2. There is still a lack of training, orientation and supervision
3. There is still a lack of understanding about the new workplace
4. There is still a lack of preparation for the workplace
5. There is exposure to more dangerous jobs
6. Remind and cultivate K3 in the workplace

So in the Cap Go Meh Gapura construction project, apart from the K3L orientation which is carried out at the beginning when new workers arrive, a Safety Talk/TBM orientation is also carried out every day before activities.

### **K3I Oriental Material**

Construction projects only require seasonal workers, meaning that construction work is only carried out with a certain number of workers and within a limited time. In this work, all workers have been trained in the work and have received K3L orientation on previous projects, but it is still necessary to provide K3L orientation. /safety induction to provide an understanding of the safety regulations that apply to projects currently being carried out.

The material provided by PT Prambanan Dwipapa's K3 division for this project includes the following:

1. Convey greetings and welcome greetings to employees & subcontractors and explain the purpose of this safety induction / K3L orientation
2. Explain and show the location of the work area (lay out), location of communication media, toilets, rest rooms, as well as working hours and restricted areas, as well as evacuation routes and gathering points.
3. Briefly explain the laws and regulations related to K3L and other company regulations
4. Explain the company organization, quality policy statement, occupational safety & health environment (K3L) and the responsibilities of each employee & subcontractor
5. Introduce and explain to workers the related work procedures
6. Explain the department organization and who answers employee & subcontractor questions and complaints if there are problems.
7. Explain the function of personal protective equipment (Personal Protective Equipment)
8. Explain environmentally friendly programs and protect work areas from environmental pollution.
9. Explain the procedures if an emergency occurs to an employee, if it results in injury, and how to evacuate

10. Explain the dangers in the work area related to dangerous toxic materials (B3) and the impact of the danger on the environment
11. Explain the health protocols for preventing transmission of corona (Covid-19), which currently still exist.

Because the construction work on the Cap Go Meh Gate involves more activities at height, all workers are also given safe work methods for working at height.

## **CONCLUSIONS, SUGGESTIONS AND RECOMMENDATIONS**

Conclusions, suggestions and recommendations for this research are:

- a. It is important to implement an occupational safety, health and environmental (K3L) orientation in construction projects carried out by PT Prambanan Dwipaka, so that workers still need socialization and education regarding K3L to all workers on duty on the project.
- b. Workers on a project who have received K3L orientation / safety induction will have a good understanding of the importance of occupational safety and health.
- c. Understanding K3L will help prevent work accidents on the projects being carried out.
- d. From this research it can be concluded that the K3L Orientation program at PT Prambanan Dwipka has been running well in accordance with existing provisions and regulations in the company and government.
- e. The role of K3L orientation/safety induction has a positive influence so that workers can work in accordance with K3 norms at work.

## **PHOTO DOCUMENTATION**



*Figure 2: Delivery of K3L Orientation / safety induction / safe work methods*

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