

## Improving Compliance With The Use PPE at PT. Lintech Duta Pratama Through The PPE Distribution and Inspection Program

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### Abstract

Increasing compliance in the use of Personal Protective Equipment (PPE) in the work environment is one of the top priorities in maintaining work safety. This study aims to evaluate the effectiveness of the PPE distribution program and inspection implemented at PT Lintech Duta Pratama in increasing compliance with the use of PPE by employees. The research methodology involves analyzing data before and after the implementation of the program, involving 200 employees as respondents. The results of the study show that before the program was implemented, the compliance rate for the use of PPE only reached 65%. After the implementation of a more structured PPE distribution program and regular inspections, the compliance rate increased significantly to 90%. This increase shows a positive correlation between the PPE distribution program and the frequency of inspections with employee awareness and compliance with the use of PPE in the workplace.

**Keywords :** PPE; Occupational Safety; PPE Distribution; Inspection; Work Compliance.

### Abstrak

Peningkatan kepatuhan dalam penggunaan Alat Pelindung Diri (APD) di lingkungan kerja merupakan salah satu prioritas utama dalam menjaga keselamatan kerja. Penelitian ini bertujuan untuk mengevaluasi efektivitas program distribusi APD dan inspeksi yang diterapkan di PT Lintech Duta Pratama dalam meningkatkan kepatuhan penggunaan APD oleh karyawan. Metodologi penelitian melibatkan analisis data sebelum dan sesudah penerapan program, dengan melibatkan 200 karyawan sebagai responden. Hasil penelitian menunjukkan bahwa sebelum program diterapkan, tingkat kepatuhan penggunaan APD hanya mencapai 65%. Setelah implementasi program distribusi APD yang lebih terstruktur dan inspeksi rutin, tingkat kepatuhan meningkat secara signifikan menjadi 90%. Peningkatan ini menunjukkan adanya korelasi positif antara program distribusi APD dan frekuensi inspeksi dengan kesadaran serta kepatuhan karyawan terhadap penggunaan APD di tempat kerja.

**Kata kunci:** APD; Keselamatan Kerja; Distribusi APD; Inspeksi; Kepatuhan Kerja

### INTRODUCTION

Occupational safety is one of the main pillars in operational management in the manufacturing and construction industries. PT Lintech Duta Pratama, as a company engaged in construction and fabrication, is well aware of the importance of occupational safety and health (K3) aspects in every operational activity. The use of Personal Protective Equipment (PPE) is one of the fundamental steps taken by companies to protect their employees from various potential

hazards in the work environment. PPE includes a variety of equipment such as helmets, safety shoes, protective glasses, and gloves designed to reduce the risk of physical injury. However, even though PPE has been provided by the company, employee compliance in its use is still a challenge that must be faced.

In recent years, PT Lintech Duta Pratama has carried out various initiatives to increase awareness and compliance with the use of PPE among employees. One of the latest initiatives implemented is a more structured PPE distribution program and the implementation of regular inspections at each work site. The distribution program aims to ensure the availability and accessibility of PPE for all employees, while regular inspections are conducted to monitor compliance and provide direct feedback to employees found to be non-compliant.

To measure the effectiveness of this program, PT Lintech Duta Pratama conducted a questionnaire survey involving 200 employees from various departments. This survey was carried out in two stages: before and after the implementation of the PPE distribution program and inspection. The questionnaire contains questions related to the frequency and consistency of PPE use, as well as the main reasons for non-compliance in their use. The results of this survey provide a clear picture of the impact of the program implemented on employee compliance levels.

Preliminary data prior to the implementation of the program showed that out of 200 employees surveyed, as many as 130 people (65%) reported that they consistently used PPE in accordance with established safety procedures. Meanwhile, 70 employees (35%) admitted that they did not always comply with PPE usage rules, citing the main reasons of inconvenience, lack of awareness of risks, and limited access to PPE. This data shows that there is an urgent need to improve the distribution system and increase the frequency of inspections in the field.

After the PPE distribution program and inspection were implemented for three months, a re-survey was conducted on the same group of employees. The results show a significant increase in compliance rates. The number of employees who consistently use PPE increased to 180 people (90%), while the number of employees who did not comply with the rules decreased drastically to 20 people (10%). This increase confirms that a more efficient PPE distribution program, coupled with strict inspections, can encourage positive behavior change among employees.

Table 1. Results of the PPE Use Questionnaire at PT Lintech Duta Pratama

| Category      | Before the Program<br>(Number of<br>Employees) | Before<br>Program<br>(%) | After the Program<br>(Number of<br>Employees) | After<br>Program (%) |
|---------------|------------------------------------------------|--------------------------|-----------------------------------------------|----------------------|
| Using PPE     | 130                                            | 65%                      | 180                                           | 90%                  |
| Not Using PPE | 70                                             | 35%                      | 20                                            | 10%                  |

From the data, it can be seen that there is a 25% increase in PPE compliance after the distribution and inspection program is implemented. These results show the success of the company's strategy in increasing occupational safety awareness, while reducing the risk of accidents due to non-compliance with safety rules. A systematic approach to PPE distribution and regular inspections are key to achieving these positive outcomes.

This program is also expected to be a model for occupational safety initiatives in other companies, emphasizing the importance of sustainability in efforts to increase compliance with the use of PPE. In the future, PT Lintech Duta Pratama is committed to continuing to strengthen this program and conduct periodic evaluations to ensure that the level of compliance is maintained at an optimal level.

## GENERAL DESCRIPTION OF THE COMMUNITY, PROBLEMS AND TARGET SOLUTIONS

## General description

PT Lintech Duta Pratama (LDP) is a leading company in Indonesia established in 1998, focusing on engineering, procurement, construction, and commissioning (EPCC) services. Based in Surabaya, East Java, LDP has built an extensive portfolio in various sectors, including energy, oil and gas, petrochemicals, mining, and infrastructure. The company offers comprehensive solutions from engineering design and engineering to procurement, construction, and commissioning, with excellence in handling high-standard complex projects. LDP also has a fabrication facility in Surabaya that is equipped with modern equipment for the production of steel components and structures, supporting construction and industrial services. With a team of experienced professionals and effective project management, LDP has obtained various international certifications such as ISO 9001, ISO 14001, and OHSAS 18001, as well as recognition from various clients and industries.

The company's vision is to become a leader in the EPCC industry in Indonesia by providing innovative and sustainable solutions, while its mission is to prioritize quality, safety, and customer satisfaction. Its head office is located on Jl. Prapen Indah J-6, Surabaya, with manufacturing facilities on Jl. Raya By Pass KM. 8, Surabaya. The company's daily activities involve the use of heavy equipment and potentially hazardous materials, so the use of PPE such as helmets, gloves, protective glasses, and safety shoes is very important. However, initial observations show that many workers are not compliant in using PPE. They often ignore the use of PPE citing discomfort or lack of awareness of the risks faced. This condition indicates the need for interventions to increase awareness and compliance in the use of PPE in companies.

## Problem

The main problem faced by PT Lintech Duta Pratama is the low level of workers' compliance with the use of PPE. Some of the causes of this low compliance Among others:

1. Lack of Education: Many workers do not fully understand the importance of using PPE and the risks faced if not using it.
2. Discomfort: Some workers find it uncomfortable to use PPE, especially in hot weather conditions or when doing work that requires mobility tall.
3. Lack of Supervision: The absence of regular inspections makes workers feel free to not using PPE without consequences.

## Target solution

This community service program aims to overcome these problems through two main approaches:

1. PPE Distribution  
Provide comfortable and standard PPE to all workers on a regular basis. In addition, training was also carried out on how to use PPE correctly.
2. Regular Inspections  
Conduct regular inspections every week to ensure all workers use PPE is in accordance with applicable rules. This inspection also serves to identify and fix any issues that may arise related to the use of PPE.

## METHOD

The methods used include direct observation at the work site and in-depth interviews with workers to analyze the factors that affect compliance with the use of Personal Protective Equipment (PPE) at PT Lintech Duta Pratama. This study aims to deeply understand the actual

conditions in the field, the obstacles faced by workers in using PPE, as well as the effectiveness of PPE distribution programs and routine inspections in improving compliance.

## RESULTS AND DISCUSSION

During the one-month period of the implementation of the program by street vendor students, various planned activities have been carried out well. The following are the results of each activity carried out:

### 1. PPE Distribution

The PPE distribution program begins by assessing the needs of PPE in each department. Based on the results of the assessment, PPE that is suitable for the type of work and risk faced by workers are distributed periodically. In addition, training was held on the importance of PPE and how to use it. The results of this program show that after the implementation of periodic PPE distribution, there is an increase in compliance with the use of PPE. Workers are starting to realize the importance of PPE and feel more comfortable because the PPE provided is of high quality and in accordance with safety standards.

Each worker receives PPE in accordance with their duties and work risks. Documentation of PPE distribution is carried out by recording the recipients and types of PPE accepted.

### 2. Regular inspections

Regular inspections are carried out weekly to ensure that all workers comply with the rules for the use of PPE. This inspection involves checking directly in the field as well as evaluating the compliance of each worker. If a violation is found, the worker is given a reprimand and reminded of the importance of PPE. From the results of routine inspections, there was a significant decrease in the number of violations of PPE use. Workers become more disciplined and understand that compliance with the use of PPE is part of their responsibility to keep themselves and colleagues safe. The impact on occupational safety, namely the increase in compliance with the use of PPE, contributes directly to the reduction of work accident incidents at PT Lintech Duta Pratama. The data shows that during the six-month period following the implementation of the program, there was a significant decrease in the number of work accidents compared to the previous period. This shows that the PPE distribution program and routine inspections are effective in improving occupational safety and health in the company.

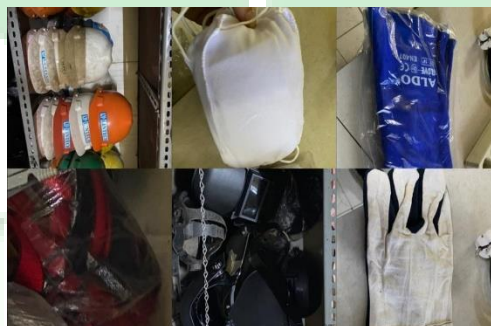


Figure 1. The types of PPE distributed

## CONCLUSIONS AND SUGGESTIONS

The PPE distribution program and routine inspections carried out at PT Lintech Duta Pratama can be said to be successful if it can increase compliance with the use of PPE among workers. This

increase can also have a positive impact on reducing the incidence of occupational accidents and improving occupational safety and health.

### **Conclusion**

1. PPE distribution programs and routine inspections have succeeded in increasing compliance with the use of PPE among workers.
2. If the program is successful, it can have an impact on a significant decrease in the number of work accidents after the implementation of the program.
3. Workers become more aware of the importance of using PPE and their responsibilities in maintaining the safety of themselves and colleagues.

### **Suggestion**

1. PPE distribution programs and routine inspections need to be continued and improved to ensure compliance is maintained.
2. It is necessary to hold continuous training and education on the importance of PPE and occupational safety.
3. Conduct periodic assessments of the program to identify areas that need to be improved and ensure that the program runs effectively.

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