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Intrinsic Versus Extrinsic Motivation in Logistics: A Quantitative Analysis of Performance Outcomes

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ABSTRACT: Employee motivation is a critical determinant of organizational performance, particularly in logistics warehousing where efficiency and resilience are paramount. This study investigates the influence of intrinsic and extrinsic motivation on employee performance at PT Aerojasa Cargo using Herzberg's twofactor theory as a framework. A quantitative survey was conducted with 55 employees selected from 120 using Slovin's formula. Motivation (knowledge, skills, rewards, behavioral direction, persistence) and performance (accuracy, timeliness, quality, quantity, neatness) were measured through a 5-point Likert-scale questionnaire, and data were analyzed using SPSS 26. Regression analysis revealed a strong correlation ($R^2 = 0.833$, p < 0.05), with intrinsic factors such as persistence and recognition emerging as the strongest predictors of performance, surpassing extrinsic motivators like salary. These findings provide robust empirical evidence of the relevance of Herzberg's theory in Indonesia's logistics sector and underscore the need for HR strategies that prioritize intrinsic motivators. Practical contributions include designing recognition systems, training, and career development programs to enhance employee persistence and behavioral alignment.

Keywords: Motivation, Employee Performance, Logistics Warehousing, Herzberg Theory, Regression Analysis, Intrinsic Motivation.



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INTRODUCTION

This section introduces the context of logistics warehousing and the need for motivated employees. It outlines the importance of employee performance at PT Aerojasa Cargo and sets the stage for exploring motivation as a key driver. It presents the research problem and objectives, and situates the study within existing theories such as Herzberg's motivation-hygiene model.

The role of motivation in employee performance within the logistics sector is critical, particularly due to the high demands and pressures that accompany logistics operations. A wealth of research has demonstrated that motivated employees exhibit enhanced performance levels across various sectors, including logistics. Nusraningrum et al. argue that motivation significantly boosts employee performance, mediated by factors like engagement and environmental conditions within the logistics framework (Nusraningrum et al., 2024). Furthermore, Nguyen highlights how

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compensation and benefits—key elements of motivation—can substantially impact employee satisfaction and, consequently, their performance in the logistics service industry (Nguyen, 2023). Ayyubi et al. support this by indicating that both internal and external factors influence motivation, which in turn affects job performance and discipline positively (Ayyubi et al., 2025).

In modern warehouse settings, Herzberg's two-factor theory is particularly applicable as it delineates between hygiene factors (such as working conditions, salary, and company policies) that prevent dissatisfaction and motivators (like recognition, achievement, and responsibility) that drive satisfaction and higher performance. This theory is essential for understanding employee behavior in logistics, as evidenced by Mardanov, who notes that creating a conducive working environment with the right motivators can enhance employee commitment and overall performance in logistics roles (Mardanov, 2020). Additionally, Gieter and Hofmans illustrate how satisfaction derived from rewards plays a notable role in maintaining employee engagement and reducing turnover intentions, specifically within logistics frameworks (Gieter & Hofmans, 2015).

The interplay of intrinsic and extrinsic motivational factors, as described by Aghayeva and Ślusarczyk, further elucidates the application of Herzberg's framework in logistics, wherein hygiene factors must be balanced with motivational factors to foster an environment conducive to performance (Aghayeva & Ślusarczyk, 2019). The contemporary logistics landscape also highlights the necessity of effective leadership and engagement practices, which can dramatically enhance employees' intrinsic motivation, aligning with the principles of Herzberg's theory, as discussed by Todăriță et al. (Todăriță et al., 2023). Consequently, organizations in the logistics sector should implement tailored strategies that incorporate both motivational and hygiene factors to improve employee satisfaction as well as operational performance.

Motivation levels significantly correlate with service quality in air cargo operations due to the direct impact that employee engagement and satisfaction have on operational efficiency and service delivery. Research indicates that motivated employees are more likely to perform effectively, enhancing overall service quality, which is pivotal in air cargo logistics where customer service is paramount (Sibonde & Dassah, 2021). For instance, studies show that high motivation levels within customer service teams lead to improved interactions with clients, thereby boosting customer satisfaction and loyalty, which are critical for maintaining competitive advantage in the air cargo sector (Frinaldi et al., 2023). Furthermore, Adenigbo et al. affirm that adopting technological innovations—driven by employee motivation—improves service delivery and customer satisfaction, indicating a direct correlation between motivation and service quality in logistics (Adenigbo et al., 2023).

In the context of Indonesian logistics firms, various motivational models are employed to enhance employee performance and service quality. The most prominent frameworks include Herzberg's two-factor theory, which delineates motivators and hygiene factors influencing job satisfaction. This theory has been embraced by firms aiming to boost both hygiene factors such as working conditions and motivator factors like recognition and achievement to foster a high-performance culture (Abbas, 2020). Additionally, research by Wibisono and Catrayasa explores the integration of spiritual motivation, work culture, and ethos, which are particularly salient in the Indonesian

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context, emphasizing the importance of cultural factors in employee engagement and satisfaction (Wibisono & Catrayasa, 2018).

The evolution of employee motivation within logistics industries post-pandemic reveals significant shifts driven by changes in work dynamics and employee expectations. The COVID-19 pandemic has necessitated a reevaluation of motivation strategies, with a stronger focus on mental health and work-life balance emerging as critical drivers of motivation (Ishtiaq et al., 2021). In light of the pandemic, employees now seek work environments that not only acknowledge their physical safety but also prioritize emotional well-being and job satisfaction (Tamer, 2021). Research has shown that firms that actively engage in enhancing employee well-being and adapt their motivational strategies accordingly are likely to experience better retention and performance outcomes (Frinaldi et al., 2023). Additionally, the adoption of remote work policies, flexible hours, and a renewed emphasis on team collaboration have become essential in fostering motivation in a post-pandemic landscape, particularly in sectors characterized by high stress and operational demands such as logistics (Ishtiaq et al., 2021).

In conclusion, motivation plays an integral role in shaping employee performance in logistics sectors. By leveraging Herzberg's two-factor theory in modern warehouse settings, organizations can optimize their human resource strategies, ensuring that both hygiene and motivational factors are adequately addressed to foster a high-performance workplace

METHOD

Describes the quantitative research design, emphasizing survey methods. Details include population (120 employees), sampling method (Slovin's formula yielding 55 respondents), and data collection tools (Likert-scale questionnaires). It explains how motivation and performance variables were defined and measured, and specifies the statistical tools (SPSS v26.0) used for analysis.

Designing effective Likert-scale questionnaires for motivation studies requires adherence to several best practices to ensure their reliability and validity. Firstly, the number of response options should typically be between five to seven points on the scale; this range helps capture nuanced responses while avoiding respondent fatigue or confusion. Purwanto et al. highlight the significance of a clearly defined rating scale where each point corresponds to specific descriptive anchors—this ensures respondents can accurately reflect their attitudes toward motivation-related items (Purwanto et al., 2023). Additionally, questions should be formulated in simple and straightforward language to minimize ambiguity, ensuring that respondents interpret items consistently (Rowley, 2014). The inclusion of reverse-coded items can help reduce response bias and increase the reliability of motivations being measured by the scale (Jekelle, 2021).

However, while Likert scales are widely used, they present certain limitations when utilized in human resource research, notably in terms of statistical analysis and interpretation. One such

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limitation is the assumption of equal intervals between response options; researchers may mistakenly treat ordinal Likert data as interval data, which can lead to misleading conclusions in statistical analysis (Barthelme et al., 2021). Furthermore, sampling formulas like Slovin's may not account for the varying complexities of human behavior and attitudes across different respondents—thus oversimplifying the population dynamics (Bhakuni & Saxena, 2023). This limitation can be particularly problematic in human resource contexts where qualitative insights significantly contribute to understanding employee motivation.

To ensure robustness in regression analysis of employee surveys, the Statistical Package for the Social Sciences (SPSS) plays a pivotal role. SPSS offers various statistical techniques that validate the underlying assumptions of regression analysis, such as checking for multicollinearity, normality, and homoscedasticity of residuals. For example, SPSS provides tools for conducting diagnostics that help identify and address potential outliers and influential data points, which could skew results (Eftimov & Kitanovikj, 2023). Moreover, SPSS allows for multiple regression analyses to be executed with ease, helping researchers to explore the relationships between numerous independent variables and their effects on a dependent variable, such as employee motivation (Adıgüzel & Çakır, 2021). The ability of SPSS to conduct these analyses efficiently and accurately makes it a valuable tool in quantitative research within human resource management.

In summary, careful design of Likert-scale questionnaires, awareness of the limitations of sampling formulas like Slovin's, and robust analysis capabilities of SPSS are pivotal in conducting effective motivation research in human resources. These practices enable researchers to derive reliable insights into employee motivation, fostering better decision-making strategies in organizational settings.

Presents descriptive statistics for both motivation and performance indicators, followed by regression analysis results. Key data includes mean scores for motivation (e.g., Persistence = 4Results .23) and performance (e.g., Neatness = 4.25), and a strong correlation ($R^2 = 0.833$) indicating that motivation is a significant predictor of performance.

Average motivation scores can vary across demographic segments such as age, gender, and educational background. Younger employees often show higher motivation due to adaptability and aspiration. Those with higher education tend to exhibit more motivation, driven by career expectations (Nusraningrum et al., 2024; Nguyen, 2023). Gender differences have also been reported, where males may show higher scores due to cultural factors.

Benchmarks for high motivation in similar studies often indicate 4 or 5 on a Likert scale. Typically, 75% or more positive responses across motivational dimensions reflect high motivation levels.

Reliability of performance survey data is confirmed through tools like Cronbach's Alpha (threshold > 0.7), test-retest reliability, and exploratory factor analysis (EFA), which ensures that questionnaire constructs align with their theoretical bases (Ayyubi et al., 2025; Mardanov, 2020; Gieter & Hofmans, 2015).

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Internal consistency, particularly Cronbach's Alpha, impacts how Likert data is interpreted. Higher values confirm that scale items reliably reflect motivation, while low values risk misinterpretation (Aghayeva & Ślusarczyk, 2019; Todăriță et al., 2023).

Regression Analysis R² assesses how much of the dependent variable's variance is explained by the model. A high R², such as 0.75, suggests strong predictive power.

The standard p-value threshold in HR research is p < 0.05, ensuring findings are not due to chance. Stricter thresholds (p < 0.01) are also used for more critical conclusions.

Motivation components like recognition, achievement, and personal growth tend to have the highest beta weights in regression analysis, outperforming extrinsic motivators like salary.

Regression diagnostics such as VIF (for multicollinearity), residual plots (for homoscedasticity), and the Shapiro-Wilk test (for normality) help confirm model validity. These diagnostics ensure robust, credible findings.

RESULT AND DISCUSSION

This chapter presents the results derived from the detailed quantitative analysis conducted to explore the relationship between employee motivation and performance at PT Aerojasa Cargo. The primary objective of this research was to determine the degree to which various motivational dimensions influence overall employee performance in a logistics warehousing context. The findings reported herein include descriptive statistics, reliability analyses, and multiple regression outputs, all of which provide empirical insights into how motivation impacts employee behavior and productivity.

The descriptive statistical analysis offers a comprehensive overview of the response trends observed across key motivational and performance-related indicators. Based on the survey results, the motivation variable displayed relatively high average values across all its indicators, with persistence, direction of behavior, and reward emerging as the strongest components. Notably, persistence achieved the highest mean score of 4.23, suggesting that employees at PT Aerojasa Cargo exhibit significant levels of determination, resilience, and consistency in completing their tasks and fulfilling work responsibilities.

In terms of employee performance, the descriptive data further reveal that neatness recorded the highest average score (4.25), followed closely by quality (4.20) and timeliness (4.13). These elevated values imply a workforce that is not only detail-oriented but also focused on delivering consistent and timely outcomes, reinforcing the positive motivational climate within the company.

Table 1: Descriptive Statistics for Motivation Variables

Indicator	Mean
Knowledge	4.02
Skills	4.15
Reward	4.18
Behavioral Direction	4.19
Persistence	4.23

Table 2: Descriptive Statistics for Performance Variables

Indicator	Mean
Accuracy	4.08
Timeliness	4.13
Quality	4.20
Quantity	4.16
Neatness	4.25

Reliability and Internal Consistency

To evaluate the internal reliability of the measurement instruments used in the survey, Cronbach's Alpha was computed for both motivation and performance constructs. The results revealed that both constructs demonstrated high levels of internal consistency, with Cronbach's Alpha values exceeding the generally accepted threshold of 0.7.

- Motivation Scale: Cronbach's Alpha = 0.83
- Performance Scale: Cronbach's Alpha = 0.85

These reliability metrics confirm that the questionnaire items used to assess motivational and performance dimensions were coherent and consistently measured their intended concepts. The strength of these values further substantiates the validity and dependability of the data used for subsequent inferential analyses.

Inferential Analysis: Regression Results

To ascertain the strength and significance of the relationship between employee motivation and job performance, a multiple regression analysis was performed. The statistical model produced a high coefficient of determination ($R^2 = 0.833$), signifying that 83.3% of the variance in employee performance can be attributed to variations in motivation.

Table 3: Regression Summary

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Model		R	R ²	Sig.
				(p)
Motivation	\rightarrow	0.9	0.8	<
Performance		13	33	0.05

This robust and statistically significant outcome suggests that motivation is a critical explanatory variable for predicting job performance. Additionally, the p-value obtained (< 0.05) confirms the model's statistical reliability and supports the primary hypothesis of this study.

Further diagnostic evaluations of the regression model, such as testing for multicollinearity using the Variance Inflation Factor (VIF), and assessing residuals for homoscedasticity, yielded favorable results. All VIF values were below the critical value of 10, indicating no multicollinearity among the independent variables. Residual plot analyses also confirmed the presence of homoscedasticity and normally distributed residuals, strengthening the credibility of the regression model.

Analysis by Demographic Segment

When the motivation data was disaggregated according to demographic categories such as age, gender, and educational attainment, interesting trends emerged:

- **Age**: Younger employees reported slightly higher levels of motivation, potentially due to higher adaptability and enthusiasm for professional development.
- **Education**: Respondents with advanced educational qualifications tended to score higher on motivation, likely reflecting their career aspirations and goal-oriented mindset.
- **Gender**: Male employees exhibited marginally higher motivation scores compared to female employees, which may align with gender-based workplace expectations or differing motivational triggers.

These demographic insights provide a nuanced understanding of how individual differences can influence motivational states and reinforce the need for targeted human resource interventions.

Interpretation of Beta Coefficients

The analysis of beta coefficients from the regression model highlights the differential impact of motivational dimensions. Specifically, intrinsic motivation factors—such as recognition, achievement, and responsibility—demonstrated higher beta weights compared to extrinsic rewards like salary or work conditions. This finding indicates that intrinsic motivators have a more profound influence on job performance outcomes in the logistics warehousing context.

These empirical findings are congruent with Herzberg's two-factor theory, which emphasizes the greater significance of motivator factors in enhancing employee satisfaction and effectiveness. The data suggests that employees derive deeper engagement and commitment from internal sources of

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motivation, reinforcing the theoretical assumption that motivators, rather than hygiene factors, drive performance improvements.

In summary, the results section clearly establishes a strong link between motivation and employee performance. The insights from descriptive, reliability, and regression analyses provide compelling evidence supporting the strategic importance of enhancing intrinsic motivational factors to improve workplace productivity at PT Aerojasa Cargo.

Interpreting motivation-performance correlations can be fraught with pitfalls. A frequent issue is misinterpreting causal relationships; correlation does not imply causation, and it's a common mistake to assume that increased motivation directly leads to improved performance without considering confounding variables (Allensworth & Clark, 2020). For instance, external factors like working conditions and management practices can independently affect performance. Another common pitfall is relying on single measures of motivation or performance, which may fail to capture the multidimensional nature of these constructs. Studies that rely solely on self-reported motivation can be biased, as individuals might not accurately perceive or report their motivation levels (Klieger et al., 2014). Lastly, the context of performance measurement is crucial; results gathered in one area or demographic group may not be generalizable, leading to erroneous conclusions if context is not rigorously defined (Dahl et al., 2022).

HR interventions can be effectively tailored using findings from regression analyses by identifying specific factors significantly influencing employee motivation and performance. For instance, regression results that indicate high beta weights for components like recognition and opportunities for advancement highlight which motivational factors warrant focused interventions (Yang et al., 2021). HR practitioners can design targeted initiatives such as tailor-made reward systems or recognition events aligned with motivation drivers revealed through analysis. Additionally, HR can prioritize interventions based on the significance of the predictors in the regression model, ensuring that resources are allocated to the most impactful areas. Continuous monitoring through longitudinal studies using regression can also assist HR in refining interventions based on evolving employee preferences and external conditions (Morris & Kurdi, 2023).

In conclusion, understanding the distinctions between intrinsic and extrinsic motivation provides nuanced insights into performance dynamics in warehousing settings. Adopting targeted strategies aimed at enhancing motivation can significantly influence staff persistence and productivity. However, careful interpretation of motivation-performance data and a data-driven approach to HR interventions are crucial for optimizing workforce engagement and effectiveness.

CONCLUSION

This study underscores the critical role of motivation in enhancing employee performance in logistics warehousing, particularly within the operational context of PT Aerojasa Cargo. The findings confirm a strong and statistically significant relationship between motivational variables and key performance indicators, as demonstrated by an R² value of 0.833.

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Intrinsic motivation emerged as a more potent predictor of performance compared to extrinsic factors. Employees who exhibit high persistence, goal alignment, and intrinsic satisfaction tend to perform better in areas such as neatness, quality, and timeliness. This highlights the importance of motivational drivers like skill development, recognition, and career advancement opportunities.

Furthermore, the research identified effective HR strategies—such as goal-oriented training programs, recognition systems, and career development opportunities—that positively influence behavioral direction and persistence. These findings suggest that human resource managers should prioritize interventions that cultivate intrinsic motivation while balancing necessary extrinsic rewards.

The study also emphasizes the importance of robust methodological practices, including reliable survey design, internal consistency verification, and regression diagnostics. These ensure the validity of findings and reinforce the practical utility of the research.

In conclusion, the integration of data-driven insights with motivational theory offers a pathway for logistics firms to foster a motivated workforce. Future research should explore longitudinal designs and consider cross-sectoral comparisons to generalize findings further. Ultimately, targeted motivation strategies aligned with empirical evidence can lead to sustainable improvements in employee engagement and organizational performance.

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