ABSTRACT

The Relationship between Management Safety Practice and Safety Behavior among Workers in a Roof Tile Manufacturing Company

Danisarah Prilly, Marsya Nalurita Indah

Correspondence E-mail : danisarahprilly@gmail.com

Background : Occupational safety behavior is essential in manufacturing workplaces where production activities involve various occupational hazards. Management safety practices may influence workers' safety behavior by establishing and reinforcing safety priorities in daily operations. However, evidence regarding this relationship in the Indonesian roof tile manufacturing sector remains limited. This study aimed to examine the relationship between management safety practices and safety behavior among production workers in a roof tile manufacturing company in Indonesia

Objective : This study aimed to examine the relationship between management safety practices and safety behavior among production workers in a roof tile manufacturing company in Indonesia.

Research Methods/ Implementation Methods : A quantitative cross-sectional study was conducted among 203 production workers selected from a population of 410 workers. Data were collected using a self-administered questionnaire distributed through Google Forms. Management safety practices were assessed using the 40-item Work Safety Scale (WSS), while safety behavior was measured using the seven-item Safety Behavior Scale (SBS). Data were analyzed using descriptive statistics, item validity and reliability testing, and simple linear regression with a significance level of $p < 0.05$.

Results : Both instruments demonstrated acceptable internal consistency, with Cronbach's alpha values of 0.926 for the WSS and 0.833 for the SBS. Simple linear regression revealed a positive and statistically significant relationship between management safety practices and safety behavior ($\beta = 0.461$, $t = 7.365$, $p < 0.001$). The regression model was statistically significant ($F = 54.242$, $p < 0.001$) and explained 21.3% of the variance in safety behavior ($R^2 = 0.213$).

Conclusion/Lesson Learned : More favorable perceptions of workplace safety practices were significantly associated with better safety behavior among production workers. These findings highlight the importance of strengthening management commitment, safety communication, supervision, and the consistent implementation of safety practices. However, the cross-sectional design does not establish causality, and other individual, interpersonal, and organizational factors may also contribute to workers' safety behavior

Keyword : management safety practices; safety behavior; manufacturing workers; roof tile industry; occupational safety