Impact of Work Environment on Risk Perception and Risk-Taking Behavior for Construction Workers in Thailand

白米亞, 李開偉, Siu Shing Man, Alan Hoi Shou Chan
Industrial Management
College of Management
kai@chu.edu.tw

Abstract

Risk perception (RP) in the construction sector is essential for workplace safety and health-related behavior. This study aims to identify risky scenarios for assessing the RP of Thai construction workers. The scale development process consists of four phases. Initially, Item development, followed by factor analysis. Reliability and validity assessments were finalized in the process. A survey of 200 construction workers in Thailand was conducted. Through the process, 11 items remained in the final RP scale, and the reliability and validity of these items were confirmed. The RP scale was affirmed to have three dimensions (probability, worry, and unsafe). These dimensions of workers’ RP were negatively correlated with the workers’ risk-taking behaviors. This study further showed that participants with a high level of affective RP were more likely to have a high level of cognitive RP. Hence, those with a high level of RP tended to be involved in lower risk-taking behaviors.

Keyword: Health and safety in the construction sector, Risk perception, Risk-taking behavior