

## ABSTRACT

Construction project is one of the industrial sector with high risk of work accident. The use of personal protective equipment or also known as PPE was one of the way to control the risk in work place. This research was aimed to reveal the factors related to the submission of the workers in using PPE in Puncak Dharmahusada Apartment Project by PT. Wijaya Karya Bangunan Gedung, Surabaya.

This study was observational analytic with cross sectional approach. The sample were taken in simple random sampling technique involving 61 out of 71 iron section workers. The variable being examined were individual characteristics (age, level of education, working hours), predisposing factors (knowledge, attitude, motivation), enabling factors (safety briefing, OHS training, PPE availability), reinforcing factor (supervision, reward and punishment, co-workers encouragement). The correlation strength was tested with contingency coefficient for nominal scale and spearman's rho correlation for ordinal scale.

The results showed that most of the respondents' age range between 17-33 years old, mostly elementary school-graduate education level and 1 up to 3,5 months of working hours. The respondents mainly had good understanding about PPE (60,7%), unfavorable attitude towards PPE usage (63,9%) high motivation of using PPE (67,2%), less participation in safety briefing (75,4%), deficient OHS training (96,7%), complete availability of PPE (49,2%), good supervision (83,6%), deflective perception of reward and punishment (78,7%), good co-workers encouragement (59%), and submissive in using PPE (73,8%). The results point out that there was a medium correlation between APD availability (0,469), co-workers encouragement (0,439) also poor correlation between knowledge (0,399), attitude (0,281), safety briefing (0,322), reward and punishment (0,296) with the submission of workers in using PPE.

The suggestion is that the company give more education media and OHS promotion, material about replacing out of order PPE is given during the safety briefing and make a regulation about the reward and punishment in the use of PPE.

Keywords: individual characteristics, predisposing factor, enabling factor, reinforcing factor, submission of PPE usage