ANALYSIS OF THE SAFETY OFSENIOR AND JUNIOR MECHANICS WITH THE STATISTICAL TEST OF U MANN WHITNEY

Riski Ramadhan Tubuali

Study Program of AutomotiveEngineering
Majoring of Engineering

ABSTRACT

Occupational safety and health (K3) aims to maintain a safe work environment which also protects all people in the area that may be affected by the risk of work accidents. Occupational health and safety is currently one of the focuses in Indonesia. This is because the number of work accidents is still high, based on Jamsostek data in 2018 the number of work accidents is 48,511 cases. According to 2018 Ministry of Manpower and Transmigration data from the source of the accident, the biggest causes were transport aircraft engines and hand tools. Thus, research is needed in order to find out whether senior or junior mechanics do not comply with work safety procedures using the U mann whiney statistical test. With this research, it is possible to find out whether there is a difference in performance in complying with work safety procedures between senior and junior mechanics. Mann Whitney U Test is a non-parametric test to determine the difference in the median of 2 independent groups if the dependent variable data scale is ordinal or interval/ratio but not normally distributed. The location of this thesis research is at PT Mining "X" which is located at Karang Indah Village, Angsana District, Tanah Bumbu Regency, South Kalimantan Province. The tool or instrument used in this research data collection is a questionnaire. It can be seen that in the Exact.Sig column. (2-tailed)/significance for the two-tailed test is 0.000 so the probability is below 0.05. Then Hi is accepted, or there is a difference in performance in complying with work safety procedures between senior and junior mechanics.

Keywords : Employment, K3, U Mann Whhitney