

ABSTRACT

Dewa, Wahyu Kusuma, 2024. *Analysis of Risk Factors for Work Accidents the Gas Industry in Bambe Sub-district Gresik City*. Thesis, Politeknik Kesehatan Kemenkes Malang. Occupational Health and Safety Study Program. Preceptor I: Rizki Mustika Riswari, Preceptor II: Ani Asriani Basri. Email : wahyu_p17451204003@poltekkes-malang.ac.id

Background: *The Gas Industry in the city of Gresik. is a company that actively produces, markets and sells a wide range of industrial gases and related products in the form of liquid or solid gases. Initial survey on monthly accident report data in 2023 per-september received by the Gas Industry OHS Manager. There were 39 cases of work accidents of which 22 cases occurred in the distribution field, in this case the exposed workers were distribution drivers. The purpose of this study was to determine the relationship between risk factors and work accidents in the Gas Industry in Bambe District, Gresik City.* **Research Methods:** *This research method is quantitative cros ssectional design with total sampling technique on 30 drivers using kendall tau_b analysis SPSS 24 application. The variables of this study are age, education level, knowledge level, machine condition, and work accident. The research instruments are, Defense Driving Questionnaire and Vehicle Checklist.* **Results:** *Based on the results of the analysis, the significance value of age with work accidents is $0.043 < 0.050$, the significance value of the level of education with work accidents is $0.000 < 0.050$, the significance value of the level of knowledge with work accidents is $0.002 < 0.050$, and the significance value of engine conditions with work accidents is $0.001 > 0.050$.* **Conclusion:** *The results of this study state that there is a significant relationship between age and work accidents which are categorized as moderately related. While the relationship between education level and work accidents, the relationship between knowledge level and work accidents, the relationship between machine conditions and work accidents is categorized as strongly related.*

Keywords: *Accident Factors, Work Accidents*