

# **Analysis of Occupational Health and Safety Standards in the JPTEI Laboratory Based on RI Minister of Health Regulation Number 48 and 70 of 2016**

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## **ABSTRACT**

Analysis of occupational safety and health in the laboratory is an activity to assess the application in a laboratory that is associated with occupational health and safety factors. Analysis of occupational safety and health is very important in practical learning. One of them is the minimum requirements for air quality in a laboratory room. These requirements must certainly have the right standards, Minister of Health Regulation of the Republic of Indonesia Number 48 and Number 70 Year 2016 which regulates office work safety and health standards and industrial work environment which regulates noise, lighting, temperature and air humidity factors that must be studied. This study aims to determine the noise, lighting, temperature, and humidity factors in the laboratory of electronics and informatics engineering education departments, and the results of the analysis of occupational safety and health standards based on RI Permenkes number 48 and 70 in 2016. This research is a research with descriptive approach method. Descriptive research is research conducted on independent variables, without making comparisons or connecting with other variables.

The method of data collection in this study uses observation. Observations were carried out directly in the laboratory of the Department of Electronics and Informatics Engineering FT UNY. The instrument of this research was made in the form of an instrument in accordance with the type of data revealed, in the form of an observation sheet. The analysis technique used is a qualitative descriptive analysis technique. Based on the data collected from the research results, the description of the data presented in the study will be compared with the existing standards in the Republic of Indonesia Minister of Health Regulation No. 48 and 70 of 2016.

Noise factor in the laboratory of the Department of Electronics and Informatics Engineering FT UNY based on RI Minister of Health Number 48 and 70 of 2016 is 80% (feasible). Lighting factors in the laboratory of the Department of Electronics and Informatics Engineering FT UNY based on the Republic of Indonesia Minister of Health Regulation Number 48 and 70 in 2016 were 92.86% (very feasible). The temperature factor in the laboratory of the Department of Electronics and Informatics Engineering FT UNY based on the Republic of Indonesia Minister of Health Regulation Number 48 and 70 in 2016 is 78.58% (quite feasible). The humidity factor in the laboratory of the Department of Electronics and Informatics Engineering FT UNY based on the Republic of Indonesia Minister of Health Regulation No. 48 and 70 of 2016 is 80% (feasible). Analysis of occupational safety and health standards in the laboratory room of the Department of Electronics and Informatics Engineering is 82.86%, which is in the appropriate category to be used in learning in the room or laboratory.

*Kata Kunci: Occupational Safety and Health, Republic of Indonesia Minister of Health Regulation No. 48 of 2016, Republic of Indonesia Minister of Health Regulation No. 70 of 2016*