ANALYSIS OF EFFECT THE WORK ENVIRONMENT TOWARDS WORKLOAD AND PERFORMANCE PERFORMANCE FLOOR OPERATOR PRODUCTION AT PT. X

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ABSTRACT

PT. X is a business entity moving in the food industry, in particular producing meatballs with several variants of taste. The production process which took place at PT. X always trying to keep product quality and increase productivity in order to meet market demand. Floor production at PT. X consists of several divisions working with the physical working environment that is different, so it can affect the performance of the workload and performance of the operator PT. X to be able to always meet market demand.

Physical work environment is everything that exists around the workers who can effect him in carrying out the tasks given. Such as: temperature, humidity, noise, lighting, odors, etc. Layout production floor PT. X can provide a picture of the working conditions of the existing production floor, then the questionnaire distributed to respondents who have been determined to find out the responses which are given respondents to the questionnaire statement. Respondents who researched many as 66 people carriers consisting of eight divisions work on the production floor PT. X The method used in the questionnaire data processing is simple linear regression to determine the effect and the correlation value of the physical environment working as an independent variable on the workload and performance as dependent variables.

The results of processing using simple linear regression method, showing the working physical environment variables affect the perceived workload to the operator with strong positive values count r-value 0.967, the determination of the value of 93.53 %.While the influence of the physical environment of the worked to the performance of the operator with strong positive values count r -value 0.980 , the determination of the value of 96.96 %.

Kata Kunci : Effect of physical work Environment, Simple Linear Regression.

I. Study of Literature

A. Ergonomics

Ergonomics is derived from the Greek word, which ERGOS (work) and nomos (natural laws), and serves as a science that examines the relationship between man and his work environment.

B. Workload

Workload according to Meshkati in Hariyati (Astianto, 2014) can be defined as a difference between the capacity or the ability of workers to the demands of the job that must be faced. Given the nature of human work mentally and physically, then each has a loading level different.

C. Effect of Environmental Conditions Physic to activity Human Work

Working conditions are not good can cause effects on the workforce in order to release the power issued and more time to be able to complete a job. Working conditions can be formed by all the circumstances that exist at the workplace such as: temperature, humidity, air circulation, lighting, noise, odors, and others.

D. Performance

Performance is an outcome that has been done in order to achieve organizational goals are carried out legally, does not violate the law and in accordance with moral and responsibilities imposed upon him.

E. Questionnaires

The questionnaire is a list of questions to others who are willing to response (respondents) in accordance with the user's request.

F. Research Instruments

The research instrument is a tool that can be used to be able to acquire, process and interpret information obtained from others who are willing to respond (respondents) were done using the same measurement pattern (Siregar, 2013)

G. Validity Test

Validity is demonstrating the extent to which a measuring instrument is able to measure what you want measured (a valid measure if it succesfully measure the phenomenon) (Siregar, 2013).

H. Reliability

Reliability is to determine the extent to which the measurement results remain consistent, if the

measurements were taken twice or more the same symptoms using the same gauge as well.

I. Indipendent Variable and Dependent Variabel

The independent variables are variables whose values do not depend on other variables, usually can be symbolized by the variable X can be used to explain or predict the value of other varabel. Sedangkang dependent variable is a variable whose values are related to or dependent on other variables , usually symbolized by Y. The variables that are variables that predicted or explained its value.

J. Linear Regression

Linear regression is one tool that can be used in predicting demand in the future based on past data or can be used to determine the effect of the independent variable on the dependent variable is by using linear regression.

Daftar Pustaka

Andriana, I., (2009). *Modul Diktat SPSS (Statistical Product Service Solution).* Bandung

Astianto, A., & Suprihadi, H,. (2014*). Pengaruh Stres Kerja dan Beban Kerja Terhadap Kinerja Karyawan PDAM Surabaya*.

Hasan, M. I., (2001). *Pokok-pokok materi Statistik 1 (Statistik Deskriptif)*. PT. Bumi Aksara, Jakarta.

Riduwan (2012). *Belajar Mudah Penelitian untuk Guru-Karyawan dan Peneliti Pemula*. Alfabeta, Bandung.

Sedarmatyanti (1966). *Tata Kerja dan Produktivitas Kerja*. Mandar Maju, Bandung.

Singarimbun, M., & Efferndi, S., (1995). *Metodologi Penelitian Survai Edisi Revisi.* PT. Pustaka LP3ES Indonesia, Yogyakarta.

Siregar, S., (2012). *Metode Penelitian Kuantitatif Dilengkapi dengan Perbandingan Perhitungan Manual dan SPSS*. Kencana, Jakarta.

Sutalaksana, I. Z., (1979). *Teknik Perancangan Sistem Kerja*. ITB, Bandung.

Zuriah, N., (2009). *Metodologi Penelitian Sosial dan Pendidikan Teori Aplikasi*. PT. Bumi Aksara, Jakarta.

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