

INCREASING EFFICIENCY OF THE LABOR SAFETY OF ENTERPRISES

Introduction. The effectiveness of implementation of potential actions and means of labor safety of enterprise depends on the quality of management and includes determine the nature and scale of accidents, forecasting their development, the correct definition of objectives and how best to eliminate the task (localization) of the possible consequences.

Materials and methods. To research the efficiency of safety labor management of enterprise should to set dependence of duration of tasks of safety management from their resources. To solve the problems of planning of resources to perform complex operations is required to determine the total as function by testing hypotheses.

Results and discussion. Approximate form $\tau(x)$ is linear, that is

$$\tau(x) = -ax + b; \quad (1)$$

rectified form $\tau(x)$ is hyperbole, that is

$$\tau(x) = c / x \quad (2)$$

at the interval $(x_{\min} \leq x \leq x_{\max})$.

Testing hypotheses about the hyperbolic shape of depending (x) was carried by using regression analysis. τ

The coefficient c is finding by the method of least squares, and then becomes known the analytical form of functions.

A measure of probability of the hypothesis of hyperbolic dependence (2) is the value of the ratio of standard deviation to the «length» of line of graphic $\tau(x)$ at the selected interval α :

$$\alpha = \delta(\tau) / L(\tau)(x), \quad (3)$$

where $\delta(\tau)$ — standard deviation range. Located by variance of statistical distribution; $L(\tau)(x)$ — integral, calculated by «rectangles», given the length of the «step» argument (eps) and the number of the steps of integration

Conclusions. Data was collected from the experimental research is needed for further work on evaluating the effectiveness of the organization and tasks of labor safety in the enterprise.

KEY WORDS: labor safety, effectiveness, hypothesis testing