

Ergonomic Requirements for the Audience in Improving the Educational Process

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Abstract: In this article, we will focus mainly on the productivity of the educational process within the framework of ergonomic requirements, the improvement of the educational process has not yet been studied. In the context of increasing automation, technization and informatization of education, there is a need for ergonomic research within the framework of requirements. Improving the educational process initially, ergonomics is understood as a science that studies systems, laws.

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In the conditions of increasing automation, technicalization and informationization of education, there is a need for ergonomic research within the requirements. Improving the educational process, ergonomics was initially understood as a science that studies systems and laws. In 2010, the International Ergonomics Association defines ergonomics as:

A scientific discipline that studies the interaction of people and other elements of the system, systems for ensuring human well-being and general performance optimization, science deals with the problems of human learning, education and training.

The science of pedagogy deals with the problems of human learning, education and training. Educational information is transferred and assimilated during the pedagogic learning process. Also, familiarization methods are used.

Let's look at the learning process from three perspectives:

- forms of students' introductory activities;
- mental activity leads in material, verbal and intellectual learning;
- mental activity leads in material, verbal and mental learning;

Practical training of students during practical training. Thus, we see that there are "direct" and "inverse" relationships between the three forms of information-giving activity. Therefore, when acquiring significantly new knowledge and methods of activity, the materialized form forms the form of speech.

Mental, after assimilation, mental actions precede and define speech.

Effectiveness of practical activity, today all these forms are widely used.

Improving the productivity of the educational process within the framework of ergonomic requirements has not yet been studied. A practical solution to this question can be implemented empirically based on pedagogical experience. [1]

Training, practical activities of the participants of the educational process. Stimulation makes the theoretical level of the system of relations in education more effective.

Fundamentals of technical ergonomic design.

Ergonomic requirements are requirements for compliance of the product design with the characteristics of the human body to ensure ease of use. Ergonomics can be seen as a manifestation of compatibility in the system "man - product", "man - technology".

Ergonomics (from the Greek word "ergon" means "work" and "nomos" means law) is a scientific science that studies the possibility of human labor at work and favorable conditions for human labor. states the legality of conditions and necessary facilities and their implementation.

Ergonomics designs a clearly visible activity of a person in accordance with the purpose, connecting it to new technology.

"The demand for ergonomic research in modern manufacturing has become so necessary and important that it is impossible not to admit that ergonomics has become something of a cult in Japan" (Encyclopedia of Japanese Design, 1964).

In 1961, the International Ergonomics Organization was formed, which united more than 30 countries.

As a separate science in our country, it began to develop since the 1950s, and at present, no design solution is implemented without the basis of clear ergonomic evidence.

The creation of comfortable working conditions does not depend only on the equipment, but also the rise and fall of pressure, noise, vibrations, and chemical particles in the air affect the human work process. Therefore, the machine being created should take into account the demand not only for it, but also for the "human-machine environment" system.

Such an approach requires continuous communication with technical fields and science about man and his work. The creation of comfortable working conditions does not depend only on the equipment, but also the rise and fall of pressure, noise, vibrations, and chemical particles in the air affect the human work process. Therefore, the machine being created should take into account the demand not only for it, but also for the "human-machine-environment" system.

Such an approach requires continuous communication with technical fields and science about man and his work. Serviceability is the compatibility of machine constructions or individual elements with a comfortable psycho-physiological system and in the process of operation - use, service and repair. Adaptation of the machine to the size and shape of the operator and his weight distribution.

Liveability - in order to make a person sane, healthy and able to work, the operation of the machine must correspond to the parameters of the biologically favorable working environment.

The opportunity to quickly study the documents related to the machine and its use (to gain the necessary knowledge, training and skills in driving and servicing the machine).

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