

formation from the operator, the reliability of its memory, retrieving and processing efficiency. In order to function reliably and efficiently the human-machine system, it is necessary for the information addressed to the operator to be transmitted in a form most convenient for perception, storage and usage. Often a person makes mistakes not because of a lack of professional qualities and skills, but because the capacity of his psychophysiological abilities is limited. If the creation of a human-machine system, the laws of perception, attention, memory and thinking, the mental properties of human and the dynamics of his mental states are not taken into account, it means that a non-functioning structure is constructed, a potential generator of problems. Technical systems and devices are created for human use. So it is important to provide the most favorable working conditions. Among other sciences, engineering psychology helps solve this problem. The study of operator activity in the human-machine system is focused on both sides of the human body - physiological and psychological. Their unity forms the human operator as they are and the way the work is performed.

The invention of new information technologies, the computerization of activities in human life has led to a change in traditional notions of professional work and the necessary professional qualities and skills. The development of engineering psychology in the 21st century must take into account the changes in the characteristics of work and the role of man in the new technically and information ally rich reality. In addition, it must set up current rules for the design and organization of human-machine systems based on the revealed patterns of information interaction. Complex technical objects, which have already become an insurmountable part of the human living environment, require adequate approaches to the formation of the individual in society and the training of staff actively involved in their maintenance and management. Existing theoretical concepts and constructs, as well as the accumulated empirical data are the necessary basis for addressing the problems of the new professionalism in already very different professional working conditions.

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