

STRUCTURAL FEATURES OF TECHNICAL THINKING

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ABSTRACT

The most important characteristics of engineering activity are: technical focus, practical goals and objectives, a high degree of creativity, a close relationship with science and humanistic orientation. Main activities: design engineer, design, innovation, an innovation from, camera, documentation control, organizational, research, analytical, consultative, educational, communicative, stimulating. Listed activities depending on specialty, qualification and specific way engineer combined among themselves. Since professional engineering activity is versatile, extremely difficult to establish common requirements for identity of engineers of different areas, occupations and levels. Virtually all researchers engineering activities have come to the conclusion that technical thinking (technical intelligence, design and technical skills) is an essential professional quality important engineer. Handling technical content has an impact on the structure and process of mental activity. From the functional point of view of technical thinking manifested in the process of solving various types of tasks associated with the technique. For technical thinking characteristic of three-component structure: conceptual, figurative and practical components of mental "activity took place on an equal footing and are in a complex interaction among themselves.

Keywords: Structure, technical thinking, components, process engineer, professional images.