

SUMMARY

Meshkov O. O. Theoretical and scientific principles of forensic engineering examination of electrical injury accidents. Ensuring the completeness, correctness and high quality of the expert's opinion on the results of the expertise of accidents related to electrical injury, in a variety of factual circumstances, in a huge range of electrical devices, with a significant amount of technical regulation of their application, is impossible without a clear definition and understanding of the fundamental basis of expert science, which certainly is the theoretical and scientific foundations of forensic examination, without highlighting existing problems in this.

The purpose of the article is to identify the existing theoretical and scientific foundations of a comprehensive forensic engineering and technical expertise during the investigation of accidents involving electrical injuries.

Outlines the general theoretical and scientific foundations for conducting forensic expertise. The state of the modern scientific development of the theoretical basis for expertise of accidents related to electrical injury is considered. The need for a thorough and detailed description of the theoretical basis for examining cases of electrical injury is conditioned by the complex nature of the special knowledge applied. In the field of electrical engineering, to establish the actual mechanism of the injury that has occurred, that is, how and under what circumstances a person has been exposed to a electric current. In the field of labor protection and safe life – to establish the cause of the accident and the causal effect of actions (inaction) of specific individuals with the fact of the event and its negative consequences.

The definition of the theoretical and scientific basis for the expertise of accidents involving electrical injury will help to create a general-purpose methods that will allow the use of scientifically based powerful tools to establish objective reality when conducting such expertise.

The problems of methodological support of a comprehensive expertise of accidents involving electrical injury are highlighted.

Keywords: *forensic engineering and technical expertise, electrical engineering expertise, expertise in the field of labor protection and safe life, accidents connected with electro inju*