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## **Historical and Legal Analysis of the Cold Steel Forensic Theory Forming**

The article is topical due to insufficient scientific significance and great practical value of the system of theoretical and applied knowledge of the cold steel forensic theory that can be directed to the search, evaluation, research and forensic tracking of significant objects used in the investigation, operational investigative and forensic actions.

Questions of formation, development and prospects of the cold steel forensic theory are studied in the article, the possibility of this type of research and its scope are discussed. Theoretical approaches to the definition of the forensic theory in the system are named. Main approaches to the theory vision of the development of the forensic knife analysis are found out; the vision of opportunities of new methods and approaches to the forensic knife analysis is improved as well. Arguments to the need for more detailed study of a range of issues, taking into account modern approaches and methods of research are given. In addition, it initiated a number of issues that have to improve the quality of assessments, taking into account new technical capabilities and scientific approaches in the field of expertise.

The characteristic of cognitive techniques and patterns that are used in the field of the forensic knife analysis is presented. Expediency of trace evidence examination methods and tracking objects to have left these traces is explained.

Analysis of literature and expert practice shows that there are many scientific problems in the forensic knife analysis. Many problems are far from resolving, some important issues that remain controversial are not considered either, various aspects related to the organization of expertise are insufficiently studied. This is because forensic knife analysis is neglected, there were different opinions about the necessity of its existence as an independent branch of forensic technology. There is a need for a programmed approach to forensic knife analysis, algorithmic process of conducting such analysis.

**Keywords:** cold steel; fire weapon; forensic knife analysis; traces of cold steel; trace evidence examination.