

Forensic ballistics

Abstract

The topic of this thesis is forensic ballistics, a technical forensic method, examining firearms, ammunition and other conditions of committing a crime using a firearms for criminalistic purposes. This thesis focuses on placing forensic ballistics in the general context of criminalistics, criminal law and international aspects. For this purpose is this thesis divided into three main parts.

The first part deals with forensic ballistics as one of technical forensic methods. Attention will be paid to the definition of forensic ballistics, placing forensic ballistics into the system of criminalistics and areas of forensic ballistics. Particular objects of forensic ballistic examination, especially specific tangible and intangible assets examined by forensic ballistics, will be presented. According to objects of forensic ballistic examination will also be presented the issue of ballistic traces. Particular sections of forensic ballistic examination will be defined at the end of the first part.

The second part is focused on procedural aspects of forensic ballistics, especially its connection with other forensic sciences and methods of criminalistics and criminal procedural law. The main idea of this part is to connect forensic ballistics as a forensic science with forensic expertise as a method of criminalistic.

The third part deals with using of automated ballistic identification systems and digitized knowledge of forensic ballistics in a form of ballistic data. Attention will be paid to using ballistic data as a part of international police cooperation. For this purpose, two main models of international ballistic cooperation will be mentioned, the exchange of ballistic data and sharing of ballistic data. Its specifics and procedural aspects will be closely examined. This part also deals with the idea of inclusion of firearms and ballistic data in Prüm framework.