

9. Abstract

Forensic ballistics

The goal of this thesis is to initiate readers into the branch of criminalistic or forensic ballistics and to its basic terminology. It is not possible to compile this theme at full length, there is no sufficient space for it, therefore I offer professional minimum of criminalistic ballistics. The fundamental purpose of my thesis is to afford the complex view of problems of modern forensic ballistics.

The thesis is composed of introduction, six chapters, conclusion and supplements. Introduction defines short acquaintance with theme and with reasons why I decided on the subject of criminalistic ballistics.

The following chapter “Historic development of fire arms” features history of weapons or fire arms. The subchapter “Historical development of forensic ballistics” includes the development of the branch abroad and in the territory of late Czechoslovakia too, including the well-known case of manslaughter of countess Windischgrätz.

The chapter “Conception of forensic ballistics and its signification” illustrates basic division of criminalistic ballistics, then illustrates objects of investigation and occurrence of ballistics clues.

The chapter named “Categories of object in ballistics investigation” is divided into three subchapters and readers can learn basic dividing of fire arms and all parts of projectile.

Next chapter “Basic areas of investigation” focus on investigation of guns and ammunition, fundamental terminology (effect and effectivity) and individual identification of guns too.

Next to the last chapter named “Division of methodical investigation in criminalistic ballistics” concentrates on technical status of guns and ammunition, macro

and microscopic investigation. The reader can learn how to operate with empirical and computing methods. The last subchapter studies questions of post-shot products.

Last chapter shows how criminalistic ballistics can be helpful in practice. It is divided into six subchapters, among others ballistics expertise or “Airsoft guns – experiment” and casuistry.

The main purpose of conclusion is to summarize the theme and appreciate the thesis. Finally there is outlined the incoming development of forensic ballistics.

Keywords: forensic/criminalistic ballistics, fire-arms, guns, ammunition