**Use modern software in practical training of surveyors**

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**The problem of training highly qualified professional surveying engineer in our time is becoming increasingly important. This is primarily connected with the** **future introduction of market of agricultural land. After all, Ukraine has chosen the European way of development, the way of private property.** Analysis of recent researches and publications shows that modern scientists are paying great attention to the problem of training specialists of the educational direction "Geodesy and land management". Educational program of training in land management involves the combination of the main objectives of the program areas of land and geographic information systems. However, the application of modern software systems during the practical training future land surveyors in high school has not become the subject of extensive discussion in scientific and methodological literature yet.

Aim is to reveal the possibilities of application of software "Geodesic location 3.0" as a means of automating cameral post-processing of engineering - geodetic data during the practical training in higher educational institutions of Ukraine. The concept of training specialists in "Geodesy and land management" is the formation of systematic knowledge of the topography, geodesy, photogrammetry, cartography, land management, geographic information technologies. The aim of practical training is the mastery of the students with modern methods, forms of organization and tools in their future profession, the formation of their professional skills for making independent decisions during specific work in real conditions, the education needs to systematically enhance their knowledge and apply them in practice. For automation the process there is a possible introduction into the educational process the software complex " Geodesic location3.0" as a software tool. Software complex "Geodesic location" v. 3.0. was created by teachers (Military service of law and order) in the " Rivne College of National University of life and environmental Sciences of Ukraine ". It is written in the programming language Delphi.

A list of the main functionality of the third version of the software " Geodesic location" : the menu of the selection tasks; access to the calculation of 23 engineering geodesy (surveying) tasks; work and quick transfer of air defense to the various objectives of the program; vector display of calculated tasks; measuring distances on a vector image; reflection of the distances; and displaying the measured angles; zoom of the image; opening and saving projects program; various printing capabilities; working with text (copy, paste, cut, etc.); quick access to standard Windows programs (Explorer, calculator, Notepad, bitmap editor); automatic generation of reports on the estimated task; rapid output of the catalog coordinates and work with it; rapid formation of a text report on the problem; data export to AutoCAD; exporting data to Digitals; exporting data to TXT-document; converting a vector image into a bitmap; export data to Microsoft Word exporting data to Microsoft Excel.

The software complex «Geodesic location 3.0" represents a fundamental design. The complex is an effective tool for students acquiring skills of geodetic calculations, processing the materials of cameral work (field surveying), resolving land-use problems. Automated program can be used by teachers as an effective tool for practical training on disciplines "Geodesy", «Land Management Design"," Engineering geodesy", "Surveying work in land management", training and surveying practices, course and diploma projects design, as well as the monitoring of knowledge and skills. Capabilities of this software comply with regulations and standards in the field of land management, and allows its using in the land management organizations successfully. Prospects for future research will be the experimental verification of the effectiveness using the software "Geodesic location 3.0" in the educational process of professional engineers’ and land surveyors’ training.