During the teaching process with education programs in information security development and use of laboratory base faces a fundamental problem – need of necessarily limit access to modern tools of information processing special requirements for the premises of location. Solution to this problem is by invoking methods of virtualization theory [1, 2, 3, 4, 5], realized on computing technology basis. The result is – development of laboratory basis is expedient to perform in complex of two main directions: 1) development of training tools; 2) developing a control system (measurement) of education quality. The developed control tools system of measuring the quality of education includes:

1. Complex for testing the quality of understanding educational material of educational process quantitative assessment system (Certificate number 2003612147 of the Russian Federation. 27.06.03).

2. Activity evaluation determination and educational trajectories prediction complex of educational process’ quantitative assessment system (Certificate number 2003612147 of the Russian Federation. 27.06.03).

Formed activity evaluation (forming of the assessment provided for the first time) allows quantification of the strategy and additional costs, required to achieve educational specified process’s level for each learner, study Group and general educational institutions in general. Moreover, these costs are differentiated relatively to the established evaluation scale. This opens the possibility of adapting educational programs and teaching methods to educational potential level of learners, both as a part of educational institutions and groups as well as individually.

For the first time the approach proposed allows to comprehensively determine evaluation of education on basis of individual active evaluations forming basis. These evaluations define the best individual learning strategies and further quantification of the required individual learning strategies, the amount of additional education and educational services cost. This opens up an entirely new realm of possibilities for further developing the technologies of education systems’ effectiveness strategic analysis. The technology developed as a result of this approach allows to create innovative education organization systems ensuring the educational process adaptation in
educational potential level of learners in continuous growth of information conditions with strictly limited study time budget.

References


5. Kotenko SV, Rumyantsev KE, SA Storchak, Pankov AA Bakulin KI. Virtual verbal personal image forming system // certificate number 2010613972 of the Russian Federation. 18.06.2010
