Topic of the final qualification work: Development of access control and management system on the example of Pyatigorsk technical school of trade, technology and service

Author of the WRC: Vladislav Romanovich Grinev

Scientific supervisor of the WRC: candidate of pedagogical Sciences, associate Professor of the Department of information and communication technologies, mathematics and information security E. A. Pisarenko

Information about the requester organization: Pyatigorsk technical school of trade, technology and service

The relevance of the research topic is determined by the importance of personal data protection in an educational institution. Creating an access control system allows you to significantly reduce or reduce to zero the probability of leaks of personal data from technical school offices due to unauthorized access to this data.

Objective: to develop a system of monitoring and access control in COLLEDGE "Pettis".

Tasks: to perform activities of GOU SPO "Pettis", to analyze an existing information system organization to describe the flow of information in College, study methods, means and systems of information security COLLEDGE "Pttes" to formulate the task of developing control systems and access control in the organization, to develop a monitoring system and access control and provide recommendations for its implementation.

Theoretical and practical significance of the research: the theoretical significance is to consider the information security system in an educational institution and develop recommendations for creating a ACS. The practical significance is the choice of tools for creating a system of access control and management in an educational institution.

Research result:

1. The existing access control and management system was Reviewed and analyzed.

2. Based on the analysis and initial data, a system of access control and

management has been developed.

3. A set of technical tools necessary for the development of access control and management of the technical school is Proposed.

Recommendations:

- install an access control system on the doors to protected areas;

- install magnetic contact sensors on Windows and acoustic sensors on ceilings in protected areas;

- replace IDs with more reliable ones;

- integrate the access control and management system with the fire and security system.