Emro Science and Education
International open-access scientific journal
Journal homepage: https://journal.emro.uz

OPEN ACCESS

CONFERENCE PAPER OPEN ACCESS

Vol. 1 No. 1 (2023) · “Axborot oqimlari va intellektual tizimlarning ijtimoiy, iqtisodiy va texnik-texnol... DOI: 10.5281/zenodo.24319161

materiallar to'plami

IMPROVING THE MANAGEMENT SYSTEM OF PERSONNEL SECURITY IN ORGANIZATIONS THROUGH INTERNATIONAL STANDARDS

Soibjonova Moxinurkxon, 2nd ear student of "Labor Protection and Technical Safety"

Personnel security is a critical issue for organizations of all types. Breaches in personnel security can lead to leaks of sensitive information, theft, sabotage, and other damages. Implementing an effective management system for personnel security based on international standards can help organizations minimize risks and protect their assets and operations. This article examines the benefits of aligning personnel security practices with international standards, focusing on the ISO 27000 series for information security management as an example. It analyzes key components of these standards and how they can enhance existing security programs related to personnel screening, access control, awareness training, and ongoing monitoring. The article concludes with recommendations for organizations looking to improve personnel security through a standards-based management system.

Personnel security refers to measures taken by organizations to ensure that individuals who access sensitive resources do not pose unacceptable risks of compromising security (Vellani, 2007). These individuals may include employees, contractors, volunteers, interns, and anyone else granted access to an organization's facilities, systems, or knowledge. Personnel security is a vital layer of protection against internal threats. While technology plays a major role in information security, risky or malicious behavior by authorized personnel can defeat even the most advanced technical controls.

Effective personnel security relies on thorough screening at the hiring stage along with appropriate access restrictions, regular training, and ongoing monitoring after access is granted. However, many organizations manage personnel security through ad-hoc, informal policies and procedures that lack consistency and rigor. This can leave significant security gaps that increase the odds of compromises, leaks, and damage over time.

Implementing a management system based on international standards can significantly improve the quality and effectiveness of personnel security programs. Standards like the ISO 27000 series lay out systematic approaches to assessing risks, establishing policies and processes, training personnel, monitoring compliance, and continuous improvement. By aligning their programs with globally-recognized standards, organizations can move beyond haphazard practices to an integrated model for consistently managing risks related to trusted insiders. This article examines the benefits of a standards-based approach and key elements from the ISO 27000 series that apply to enhancing personnel security.

Benefits of Aligning Personnel Security with International Standards

International standards for management systems provide frameworks of policies, procedures, metrics, and controls that have been developed by experts and vetted across multiple countries and industries. Using such standards as guidelines can help organizations streamline the design and oversight of their personnel security programs to achieve the following benefits:

Published: 10.11.2023

Cite this article: Soibjonova Moxinurkxon (2023). Improving the management system of personnel security in organizations through international standards. Emro Science and Education, 1(1). https://doi.org/10.5281/zenodo.24319161

© 2023 The Author(s). Published by Emro Science and Education. This is an open access article.

- Improved risk management - Standards require systematically identifying roles, access types, risks, and impacts as the basis for security requirements. This results in appropriate safeguards to match personnel roles and responsibilities.

- Consistency and uniformity - Documented policies, procedures, controls, and training based on standards create consistency in personnel security activities across the organization.

- Ongoing monitoring and improvement - Management system standards require continual auditing, corrective actions, and process improvements. This allows personnel security to evolve along with new threats and business changes.

- Compliance assurance - Alignment with internationally recognized standards provides confidence that legal, regulatory, and policy compliance obligations are being met.

- Reduced costs - Well-designed, standards-based programs improve efficiency by eliminating redundant or ineffective personnel security activities.

- Competitive advantage - Leading security practices can be leveraged in marketing and proposals to differentiate the organization with customers and partners.

In summary, personnel security based on standards moves the organization from reactively responding to events toward proactively managing risks in a systematic manner based on globally accepted good practices.

Key Elements of ISO 27000 Series Standards

The ISO 27000 series provides one of the most well-established international standards for managing information security risks. While written broadly across technical, administrative, and physical controls, it contains many elements directly applicable to improving personnel security programs including:

- Organizational security policy, roles, and responsibilities - Standards require formally defined policies and assignment of responsibility for personnel security activities.

- Personnel screening and access control - Controls governing background checks, eligibility criteria, proper authorization, and termination are outlined.

- Security awareness education - Standards impose requirements for initial and ongoing personnel training on security policies, procedures, and expected behaviors.

- Response planning - Response procedures must be established for investigating and handling security incidents involving personnel.

- Monitoring and auditing - Continuous auditing of personnel security practices is mandated to quickly identify gaps or non-compliance.

- Management review and improvement - Executive oversight and regular improvement of personnel security is required based on audit results, incidents, and changing risk assessments.

By incorporating these elements into their personnel security programs as dictated by ISO 27001, organizations can move from ad-hoc security to an integrated system that is actively measured, managed, and improved. Personnel security becomes part of the overall approach to information security governance.

materiallar to‘plami

Transitioning to a personnel security program guided by international standards may seem daunting at first. The following recommendations can help make the move manageable:

- Obtain leadership commitment - Educate executives on the benefits of standards-based security and gain formal approval and support. Assign overall responsibility to a senior executive.

- Assess current state - Perform audits to understand current personnel security gaps versus requirements of the target standard. Determine priority areas for improvement.

- Develop an implementation roadmap - Outline steps for updating policies, procedures, controls, training, and responsibility assignments to achieve compliance with standards over time.

- Allocate resources - Ensure adequate budget, staff, and technology are available for activities like risk assessments, training, monitoring, and auditing.

- Phase in changes - Roll out new personnel security elements gradually based on priority and resource availability. Integrate practices into normal operations.

- Leverage external expertise - Consult experienced advisors to accelerate implementation, overcome challenges, and supplement internal resources as needed.

- Measure progress - Use process metrics, audits, and management reviews to monitor the effectiveness of changes and guide ongoing improvement.

Personnel security represents a foundational component of protecting sensitive organizational assets and activities. International standards for information security management systems provide proven frameworks to improve the rigor, consistency, and effectiveness of personnel security programs. Standards like ISO 27001 outline critical elements such as formal policy, access controls, training, monitoring, executive governance and continuous improvement. Organizations that align their people-focused security safeguards with these standards can reduce risks, achieve compliance, improve efficiency, and gain competitive advantages. With a methodical approach and adequate resources, organizations can implement standards-based changes successfully over time and integrate them into routine operations. The result will be a personnel security program ready to address both today’s and tomorrow’s challenges.

Scientific leader: Kobulova N.

Reference

1. Кабулова, Н. Д., Ходжакулов, М. Н., & Рахимов, Д. Б. (2021). АКТУАЛЬНОСТЬ ИСПОЛЬЗОВАНИЯ ПРОГРАММНОГО ОБЕСПЕЧЕНИЯ (ПОИСКОВО-ИНФОРМАЦИОННАЯ КАРТОГРАФИЧЕСКАЯ СЛУЖБА, ГЕОЛОКАЦИЯ) В ПОДРАЗДЕЛЕНИЯХ МИНИСТЕРСТВА ПО ЧРЕЗВЫЧАЙНЫМ СИТУАЦИЯМ РЕСПУБЛИКИ УЗБЕКИСТАН. *Universum: технические науки*, (7-1 (88)), 14-17.

2. Jalilovna, Q. N., Rustamjon o‘gli, Y. D., Xosiljon o‘g‘li, M. J., & Isroiljonovich, I. O. (2021, January). Himoya Gazlari Muhitida Payvandlashda Mehnat Muhofazasi. In *Archive of Conferences* (Vol. 13, No. 1, pp. 47-48).

3. Халматов, М. М., Исмаилходжаев, Б. Ш., Кабулова, Н. Ж., & Хусанов, Д. Д. (2021). ГЕОФИЗИЧЕСКОЕ МОДЕЛИРОВАНИЕ РАСПРЕДЕЛЕНИЯ

АТМОСФЕРНЫХ ЗАГРЯЗНИТЕЛЕЙ В АНДИЖАНЕ НА ОСНОВЕ УРАВНЕНИЙ АЭРОДИНАМИКИ. *Universum: химия и биология*, (6-1 (84)), 30-34.

4. Кобулова, Н. Ж., & Нарзиев, Ш. М. (2021, December). Ходимларнинг Меҳнатини Муҳофаза Қилиш Самарадорлигини Ошириш Йўллари. In *Здравствуйте, уважаемые участники международной научной и научно-технической конференции, дорогие гости* (p. 485).

5. Qobulova, N. J., Abdumutalibov, J., & Akbarov, A. (2022). ISHLAB CHIQARISH KORXONASIDA MEHNAT XAVFSIZLIGINI BOSHQARISH TIZIMI (MXBT) NI TAHLILI. *Theoretical aspects in the formation of pedagogical sciences*, *1*(6), 218-223.

6. Qobulova, N. J., Abdurahmonov, A., Musaev, M., & Sh, M. (2022). DEVELOPMENT OF SAFE TECHNOLOGY OF FUEL BRIQUETTES BASED ON FOOD AND AGRICULTURAL ORGANIC WASTE. *Экономика и социум*, (2-2 (93)), 312-315.

7. Jalilov, A. (2022). O'zbekiston atroph-natural environment and ecologyning respublikasi yomonlashuvi bilan bog'liq muammolarning muammolari muammolari. *Scienceweb akademik maqolalar to'plami* .

8. Jalilov, A. (2021). O'zbekistonda individual ravishda qurilgan binolarning zilzilabardoshligini oshirish yo'llarini takomillashtirish. *Scienceweb academic papers collection*.

9. Jalilov, A. (2023). Favqulodda va ekologik ofatlarda korxona boshqaruvi. *AMERICAN muhandislik, mexanika va arxitektura jurnali* .

10. Жалилов, А. (2022). Модель для выявления и анализа проблемных вопросов в деятельности должностных лиц национального центра действий и управления чрезвычайными ситуациями министерства по чрезвычайным ситуациям. *in Library*, *22*(4), 25-32.

11. Jalilov, A. (2023). FVHQ VA BMM TIZIMINI TAKOMILLASHTIRISH MODELI. *«ОБРАЗОВАНИЕ И НАУКА В XXI ВЕКЕ»*.

12. Otto, M., & Thornton, J. (2023). ЗНАЧЕНИЕ ЭПИДЕМИОЛОГИЧЕСКИХ ПРОЦЕССОВ В ЧРЕЗВЫЧАЙНЫХ СИТУАЦИЯ. *QO ‘QON UNIVERSITETI XABARNOMASI*, 27-31.

Otto, M. va Tornton, J. (2023). Favqulodda vaziyatning ma'muriy-huquqiy REJIMI. *QO 'QON UNIVERSITETI XABARNOMASI* , 20-26.