

Enhancing Knowledge Management in Transport Security

Transport security is essential for the protection of an estimated 15–20 million shipments of nuclear and other radioactive materials annually across various sectors, including medicinal, nuclear, and agricultural sectors. This paper examines the critical role of effective knowledge management practices in overcoming systematic and cultural barriers that hinder operational efficiency and innovation within transport security, specifically through the lens of two countries with operating Nuclear Power Plants including the Czech Republic and South Africa. Key barriers include inadequate mentorship programs, regulatory challenges, limited communication channels, and a lack of collaborative culture, which all impede the development of a skilled and knowledgeable workforce crucial for addressing complex security challenges.

Implementing robust knowledge management strategies offers numerous benefits, such as enhanced decision-making, innovative problem-solving, and diverse perspectives necessary for tackling intricate security dilemmas. Organizations that thrive in managing knowledge can tap into a broader talent pool, which leads to improved creativity, operational success, and better business outcomes. By fostering a culture of knowledge sharing, the transport security sector can become more adaptable and resilient to respond more effectively to evolving threats.

To promote effective knowledge management, the authors recommend developing structured mentorship programs, developing related regulatory requirements, creating inclusive communication platforms, and implementing targeted training initiatives that focus on best practices in knowledge sharing. Regular assessments of knowledge management practices are also crucial in identifying gaps and facilitating continuous improvement. By adopting these measures, organizations with a nexus to transport security can enhance their operational capabilities and strengthen the sector as a whole.

Country or International Organization

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Instructions

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