Transport Security Management

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The WINS Academy Elective on Transport Security Management has been designed for individuals employed by organisations with responsibilities for the safe, secure shipment of nuclear or other radioactive material. Examples include those who prepare nuclear material for transport (i.e. producers, suppliers, distributors and consignors), those who transport nuclear material (i.e. carriers), those who take delivery of a shipment (i.e. receivers, consignees), and those who provide operational support, such as escort and guard force personnel. The audience may also include freight forwarders and customs brokers, field service providers, response force personnel, customs and border crossing personnel and regulators.

The transport of nuclear and other radioactive material may comprise multiple modes (e.g. roads, rail, air, inland waterways or sea), take place across national boundaries, require adherence to a variety of laws and regulations, and involve numerous stakeholders, many of whom change as the transport proceeds. Consequently, ensuring effective transportation security requires careful planning, communication and coordination. This module helps participants understand what is required to achieve this goal—whether they are arranging, carrying, receiving or protecting a shipment or are responsible for responding should a security event occur.

The module also helps participants understand that, since shipments of nuclear and other radioactive material occur in the public domain as compared to a fixed facility, and since shipments may frequently involve transport across national boundaries and possibly involve more than one mode of transport, these shipments pose a high security risk. In fact, such shipments may be one of the most vulnerable, if not the most vulnerable activity involving these materials. The module also focuses on how to manage a uniform, adequate and consistent approach to security during transport. Using a practical approach to learning, it helps participants understand what is required of them to ensure an adequate level of security for shipments.

The module also recognises that circumstances will vary from State to State; therefore, its purpose is not to establish standards but to provide insight into the principles of nuclear materials transport and to ask informed questions that will prompt reflection and further inquiry. The content is based upon practical experience, research and best practice as identified from WINS' broad membership, relevant workshops, and expert professionals in the field.

By the end of the module, participants will understand:

— The roles and responsibilities involved in preparing for and managing the secure transport of nuclear and other radioactive material.

— The types of materials that might be transported, the threats and vulnerabilities they face during transport, and specific actions that can be taken to ensure their security.

— How to plan, develop and implement an effective security system according to a graded approach based on the level of risk posed by the material being transported.

— How to create a transport security plan, assess the degree to which the transport system satisfies the plan's requirements, and correct deficiencies before the shipment departs.

— How to analyse, respond to, and document a security incident.

— How to contribute effectively to transport security within their organisation.

Textbook
Transport Security Management
Nuclear Security Management
Certification Programme

World Institute for Nuclear Security

OUTLINE

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UNIT 3: PREPARING FOR TRANSPORT
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3.3 Categorising Radioactive Material for Transport
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UNIT 5: TRANSPORT OPERATIONS AND INCIDENT RESPONSE
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UNIT 6: TRANSPORT SCENARIO DEVELOPMENT