

# Secure Transportation Management

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# Secure Transportation Management

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**Workshop Overview**  
**October 2014**



# Course Information

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## Course Title

- **Secure Transportation Management Course (STMC)**

## Course Length

**Option 1 – 5 days**

**Option 2 – 11 days (additional exercises)**

**Week 1 - Mon – Sat**

**Week 2 – Mon - Fri**



# Mission and Purpose

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**The STMC course provides managers with information related to procedures and equipment used to successfully transport special nuclear material.**

**The information presented is reinforced through the use of numerous practical exercises.**

**Each practical exercise is a building block for the next exercise, designed to defend against the identified threat.**



# Mission and Purpose (continued)

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**Following the final lesson there will be three practical convoy exercises. These exercises consist of three different routes, conducted over three days.**

***Note: Only in 2 week version***



# Scope

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**The course focuses on the following topical areas from a managers perspective:**

- **Understanding the regulatory framework for secure transportation of special nuclear materials**
- **Identifying the insider and outsider threat(s) to secure transportation**



# Scope (continued)

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- **Organization of a secure transportation unit**
- **Management and supervision of secure transportation units**
- **Equipment and facilities required**
- **Training and qualification needed**



## **Scope** (continued)

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- **Communications on a national, convoy, and individual level**
- **Documentation of practical exercises**
- **Vulnerability assessments of secure transportation units/convoys**
- **Conduct of convoy operations**
- **Three practical exercises in convoy operations**



# Lesson 1: Regulatory Framework

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## Goal:

- A working level knowledge of the secure transportation nuclear regulatory framework.

## Objectives:

- Discuss the regulations that govern the security and transportation of nuclear material.
- Discuss the organizational alignment for those responsible for nuclear transport.



# Lesson 2: Threats to Nuclear Materials in Transport

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## Goal:

- A working level knowledge of the threats to nuclear materials convoys and facilities and the impact these threats have on transportation security operations.

## Objectives:

- Discuss the purpose of a Design Basis Threat.



# Lesson 2: Threats to Nuclear Materials in Transport (continued)

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## Objectives: (continued)

- Discuss the three questions that any good threat definition should answer.
- Discuss the types of adversaries which may threaten a nuclear material convoy or facility.
- Discuss tactics employed by adversaries.
- Discuss the capabilities of potential adversaries.



# Lesson 2: Threats to Nuclear Materials in Transport (continued)

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## Practical Exercise:

- **Threat Identification Exercise**
  - Provide an awareness of the threats that convoys may face, and to provide practical experience developing threat tables.



# Lesson 3: Organization of a Secure Transportation Unit

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## Goal:

- A working level knowledge of how to organize a secure transportation unit.

## Objectives:

- Discuss the organization created to provide safe and secure transportation of nuclear weapons, nuclear weapon components, and special nuclear material (SNM).



# Lesson 3: Organization of a Secure Transportation Unit (continued)



## Practical Exercise:

- **Secure Transportation Organizational Structure Exercise**
  - Design and discuss the organizational structure of a secure transportation unit.



# Lesson 4: Management and Supervision

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## Goal:

- **A working level knowledge of hiring and retention practices, and the management and supervision structure as related to secure transportation personnel.**

## Objectives:

- **Discuss the selection process to ensure quality candidates**



# Lesson 4: Management and Supervision

## (continued)

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### Objectives: (continued)

- **Discuss candidate entry level training**
- **Discuss using a systematic approach to training to achieve performance based metrics**
- **Discuss the management and supervision organizational structure**



# Lesson 4: Management and Supervision

(continued)

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## Practical Exercise

- **Secure Transportation Protective Force Type and Size**
  - **Determine the required size and makeup of a secure transportation protective force necessary to guard a materials transport.**



# Lesson 5: Equipment and Facilities

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## Goal:

- **A working level knowledge of the equipment and facilities needed to support convoy operations**

## Objectives:

- **Discuss vehicles needed for convoy operations**
- **Discuss the equipment each agent needs for convoy operations**
- **Discuss the facilities needed to support convoy operations**



# Lesson 5: Equipment and Facilities

(continued)

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## Practical Exercise:

- **Equipment Needs Exercise**
  - **Determine the equipment required to support a secure transportation unit.**



# Lesson 6: Training and Qualifications

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## Goal:

- **A working level knowledge of the importance of training and qualifications in an effective and efficient secure transportation operation**

## Objectives:

- **Discuss the requirements for training and qualification programs**



# Lesson 6: Training and Qualifications

(continued)

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## Objectives:

- **Discuss the importance of a systematic performance-based training process**
- **Discuss required instructor qualifications**
- **Discuss the types of training required**
- **Practical Exercise: Training Requirements**
- **Determine the training required to support a secure transportation unit.**



# Lesson 7: Communications

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## Goal:

- **A working level knowledge of convoy operation communication needs.**

## Objectives:

- **Discuss the types of communications needed to track a convoy**



# Lesson 7: Communications (continued)

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## Objectives:

- **Discuss communications between the communication center and each convoy**
- **Discuss vehicle to vehicle communications**
- **Discuss individual portable communications**
- **Discuss radio communication procedures**



# Lesson 7: Communications (continued)

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## Practical Exercise:

- **Tactical Communications**
  - **Introduce the concept of tactical communications.**



# Lesson 8: Documentation

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## Goal:

- **A working level knowledge of plans and orders and the purpose of a Transportation Security Plan**

## Objectives:

- **Discuss characteristic of good plans and orders**
- **Discuss types of plans and orders**



# Lesson 8: Documentation (Continued)

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## Objectives:

- **Discuss requirements for well documented plans and orders**
- **Discuss the purpose and application of a Transportation Security Plan**
- **Practical Exercise: Transportation Security Plan**
  - **Write a Transportation Security Plan using the IAEA format.**



# Lesson 9: Vulnerability Assessments on Secure Transportation

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## Goal:

- **A working level knowledge of vulnerability analysis techniques as applied to Secure Transportation Management**

## Objective:

- **Discuss the VA process and the specific tool used in this course (VISA)**



# **Lesson 9: Vulnerability Assessments on Secure Transportation (continued)**

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## **Objectives:**

- **Conduct practical exercises using identified theft scenarios and the VISA tool to define various levels of conditional risk for each scenario**
- **Conduct a characterization of a notional road convoy focusing on physical security elements**



# Lesson 9: Vulnerability Assessments on Secure Transportation (continued)

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## Practical Exercises:

- **1) Transportation Security Pre-Convoy Operations; 2) Adversary Timeline; 3) Table Top Exercise Documentation Report; 4) Short Convoy**
  - **Provide an awareness of the process associated with performing a transportation vulnerability analysis and to provide practical experience developing check lists, timelines and analysis matrixes.**



# Lesson 10: Convoy Operations

## *(2 week version only)*

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### **Goal**

- **A working level knowledgeable of convoy operations**

### **Objectives**

- **Discuss the transportation element under normal operations**



# Lesson 10: Convoy Operations (continued)

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## Objectives

- **Discuss the response element under normal operations**
- **Discuss convoy and vehicle assignments**
- **Discuss convoy departure and arrival times**
- **Discuss the pre-trip briefings**



# Lesson 10: Convoy Operations (continued)

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## Objectives

- Discuss the convoy activities during stops
- Discuss interaction with outside agencies
- Discuss accepting and releasing cargo responsibilities
- Discuss destination arrival activities
- Discuss convoy reactions to an attack



# Lesson 10: Convoy Operations (continued)

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## Practical Exercises

- **Convoy Operations**
  - **Provide the opportunity to observe and participate in simulated convoy operations.**