Hazardous Materials
Security Awareness
Security Awareness Objectives

Provide employees with skills to:

• Identify hazardous materials (hazmat) security risks
• Improve transportation security
• Recognize and respond to security threats
Who Must Take This Training?

- Employees who transport hazmat
- Employees who prepare hazmat for transport
- Employees who load, unload, or handle hazmat for transport
- Employees who are responsible for the safe transport of hazmat
This Training Is Required When Transporting:

• Gasoline, mixed gas, or drip-torch fuel in containers larger than 8 gallons
• Diesel in containers larger than 119 gallons
• More than 440 total pounds of hazmat in a single vehicle (except diesel in containers 119 gallons or smaller)
What Is Security Awareness?

The process of making employees who handle hazmat aware of:

- Potential security risks
- Methods to enhance security
- Recognition of and responses to security threats
Security Risks
What Is the Security Risk?

• Transporting hazmat is essential to a lot of field work, but can be dangerous when handled incorrectly or if used as a weapon.
• Hazmat can be, and has been, used to harm people and cause property damage.
• Storing, preparing for transport, and transporting hazmat pose security risks in the form of:
  • Theft
  • Vandalism
  • Sabotage
  • Acts of violence using hazmat
Potential Threats

Threats to hazmat security include:

• External
  • Nonemployees
  • Contractors
  • Visitors
  • Local citizens
  • Computer hackers

• Internal
  • Employees
  • Disgruntled workers
Potential Threats

To combat threats to transportation security:

• Watch for unusual behavior and report unusual circumstances
• Take threats to employees or agencies seriously
• Prevent stolen cargo
  • Park in lighted rest stops
  • Maintain visual contact of the vehicle
  • Do not pick up hitchhikers
• If using a contracted driver:
  • Verify identity
  • Watch for fake documentation or forged documents
  • Verify driver’s qualifications
  • Write driver’s license number on shipping papers
  • Have driver print and sign name on shipping papers
Potential Threats

To combat threats to transportation security:

• Drive safely
• Comply with U.S. Department of Transportation (DOT) Hazardous Materials Regulations (HMR)
• Secure vehicle and trailers when unattended
• Perform pretrip inspections
• Follow check-in procedures
• Plan the safest route
• Develop a transportation security plan
• Develop a facility security plan
Potential Targets

Threats to hazmat security may target:

- Hazmat storage units
- Hazmat containers
- Fuel trailers
  - Manipulate valves or fuel openings
  - Loosen connections
  - Damage trailers
- Fuel tanks
- Agency vehicles
Methods To Enhance Security
Security Program Development Ideas—Example

- Write a general security plan specific to local operations and threats.
- Perform a security assessment.
  - List hazmat commonly used and modes of transportation
  - Review activities that involve hazmat use or transportation
  - Review procedures currently followed
  - Determine risks and vulnerabilities of current operations
  - Determine what could be done differently to improve security
Security Program Development Ideas—Example

- Develop a plan to implement security changes and preventive actions
- Set security goals and determine effectiveness of security plan
- Train employees on local security requirements and expectations
- Know the quantities of hazmat in storage and being transported
- Train for or discuss actions to be taken during a security breach
- Adapt preventative actions to current security threats
- Share occurrences of security incidents with neighboring areas and watch for trends
Security Plan

A written transportation security plan is required only when transporting in a single packaging:

- Explosives
- More than 792 gallons of flammable gases (example: propane)
- More than 792 gallons of flammable liquids (example: gasoline, drip-torch fuel)
- More than 6,614 pounds of oxidizers (example: potassium permanganate in spheres used for aerial ignition) or items in which the total amount of perchlorates exceed 6,614 pounds (example: fusees containing potassium perchlorate)
Security Plan Requirements

• Must assess transportation security risks of materials listed in the previous section
• Include site- or location-specific risk to facilities where hazmat is stored or prepared for transport
• Include appropriate measures to address risks
• Must be written
• Review annually and revised as needed
• Must be available to employees
• Retain current versions and dispose of old versions
Security Plan Requirements

Security plans must specifically include:

• Employee security—including measures to verify details provided by job applicants who will have access to hazmat.

• Unauthorized access prevention—including measures to address the risk of unauthorized access to hazmat or transport vehicles.

• En route security—including measures to address security risks during hazmat transport, including storage incidental to transport.
Security Plan Requirements

Security plans must specifically include:

• Identification, by job title, of the management official responsible for developing and implementing the security plan

• Security duties for each position that is responsible for implementing any part of the plan and the process to notify employees when parts of the plan must be implemented

• A plan for training hazmat employees
Employee Security Recommendations

Perform these actions and include them in the security plan:

- Check previous employers and references on employee job applications
- Inform employees of security plans and responsibilities
- Encourage reporting of suspicious activities
- Perform security inspections
- Discuss security measures with employees
- Notify employees of security issues
- Provide a list of emergency contacts
Unauthorized Access

Recommendations

Perform these actions and include them in the security plan as necessary for local implementation:

• Maintain relationships with agency and local law enforcement and emergency responders
• Request a facility and security program review by law enforcement and fire officials
• Inventory hazmat supplies
• Secure hazmat when unattended
• Improve fencing and lighting
• Limit access of nonemployees
• Report suspicious activities to law enforcement
Unauthorized Access

Recommendations

Perform these actions and include them in the security plan as necessary for local implementation:

- Limit disclosure of security plan and protocols to individuals who need to know the information
- Request security patrols during off hours if incidents are likely or have recently occurred
- Escort visitors on the property
- Lock vehicle, trailer, and camper shell doors when transporting hazmat
- Secure exposed valves, tank covers, or compartments with tamper-proof or tamper-evident devices
- Record all occurrences of security incidents
- Heighten security measures when warranted
En Route Security Recommendations

Perform these actions and include them in the security plan:

- Know or verify the identity of the driver
- Identify preferred routes and acceptable alternatives
- Minimize stops
- Prevent unnecessary delays during transport
- Store hazmat securely during required delays
- Use tamper-proof or tamper-evident devices where security is a problem
Recognition and Responses To Security Threats
Recognize Security Threats

- Suspicious activity
- Items out of place
- Inaccurate inventories
- Physical threats
- Sudden or recurring vehicle maintenance problems
Respond To Security Threats

• Notify designated person(s)
• Notify law enforcement
• Alert others in the immediate area
• Gather details
  • License plate number or vehicle description
  • Description of a person
  • Location of occurrence
• Leave the scene if unsafe
• Document occurrences
• Do not endanger yourself or others
• Revisit security plan and improve where necessary
Summary

• Storing, preparing for transport, and transporting hazmat poses security risks.
• Threats to hazmat security can be from internal or external sources.
• A local security plan and security assessment can enhance hazmat security.
• Simple actions will make employees aware of security risks, methods to reduce those risks, and actions to take during a security incident.