

# Hazardous Materials Incident Management & Grant Funding Prioritization



U.S. Department of Transportation  
Pipeline and Hazardous Materials  
Safety Administration

To Protect People and the Environment From the Risks of  
Hazardous Materials Transportation



# Overview

- Learning objectives
- The importance of pre-incident planning and hazardous materials incident management
- Identifying, analyzing and anticipating possible risks
- Identifying strategies for mitigating and minimizing risks
- Prioritizing risks and allocating grant funding
- Allowable activities covered by HMEP grant funding
- Diversifying and leveraging grant funding
- Using the PHMSA incident reporting tool to assess historical data and trends
- Summary
- Questions



## Learning Objectives

To assess and prioritize potential risks for the purpose of allocating HMEP grant funding to fund preparedness and response efforts as a means of mitigating risk inherent to the transport of hazardous materials.



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# The Importance of Pre-incident Planning and Hazardous Materials Incident Management



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# The Importance of Pre-incident Planning and Hazardous Materials Incident Management

## Hazard

The inherent characteristic of a material, condition, or activity that has the potential to cause harm to people, property, or the environment.



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# Risk

The combination of the likelihood and the consequence of a specified hazard being realized.



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# The Importance of Pre-incident Planning and Hazardous Materials Incident Management

## Hazardous Materials Incident

A hazardous materials (HAZMAT) incident is a type of safety incident that involves the uncontrolled release of one or more hazardous materials into an environment in which humans are or could be present or that otherwise holds the potential to put human or environmental safety at risk if not addressed.

HAZMAT incidents include simple spills, major spills, and emergencies.



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# The Importance of Pre-incident Planning and Hazardous Materials Incident Management

## What is Pre-incident Planning?

- It is collaborative planning at facilities during the pre-incident phase that enables all stakeholder (public safety, private sector and transporters) to anticipate, identify, and assess potential hazards that could present during an incident.

## Why is Pre-incident Planning?

- Communities and facilities are required to participate in emergency planning under EPA's Emergency Planning and Community Right-to-Know Act under certain conditions. OSHA requires facilities to develop an Emergency Action Plan to address employee health and safety. However, these regulatory requirements leave several gaps that can be addressed through pre-incident planning since both the private company (industry) and the public responders will be required to work together in a unified manner if there is an incident at a private facility which could impact the public.



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# The Importance of Pre-incident Planning and Hazardous Materials Incident Management

## What is Hazardous Materials Incident Management?

- The systematic application of policies, practices, and resources reflect site specific planning, training, and exercises that minimize hazardous material impacts and restrict potential chaos.
- **Response plans** should clearly dictate processes and procedures that minimize hazardous material impacts.
- **Training** must be aligned with response roles and responsibilities, facility operations, and regulatory requirements.
- **Exercises** should include hazardous material release scenarios that allow response team members to collaborate and communicate assigned roles, responsibilities, and required actions in response to one or more site specific scenarios.

## Why is Hazardous Materials Incident Management Important?

- Identifies the potential threats and probable incident scenarios which enables proper pre-planning. Response procedures and processes can be incorporated into the site-specific plans to proactively facilitate corrective actions in the event of a hazardous release



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# Identifying, Analyzing and Anticipating Possible Hazards and Risks

## Identifying Potential Hazards and Risks

- What commodities are flowing through your area?
- What are their modes of transport?
- What is the number persons and property exposed to risks?

## Analyzing Potential Hazards and Risks

- What are the associated hazards specific to each commodity?
- What is the magnitude, frequency, duration and speed of onset?



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# Identifying, Analyzing and Anticipating Possible Hazards and Risks

## Anticipating Potential Hazards and Risks

- Trends in historical incidents and accidents involving commodities within a jurisdiction?
- What are the hazmat transport routes that pose a geographical challenge?

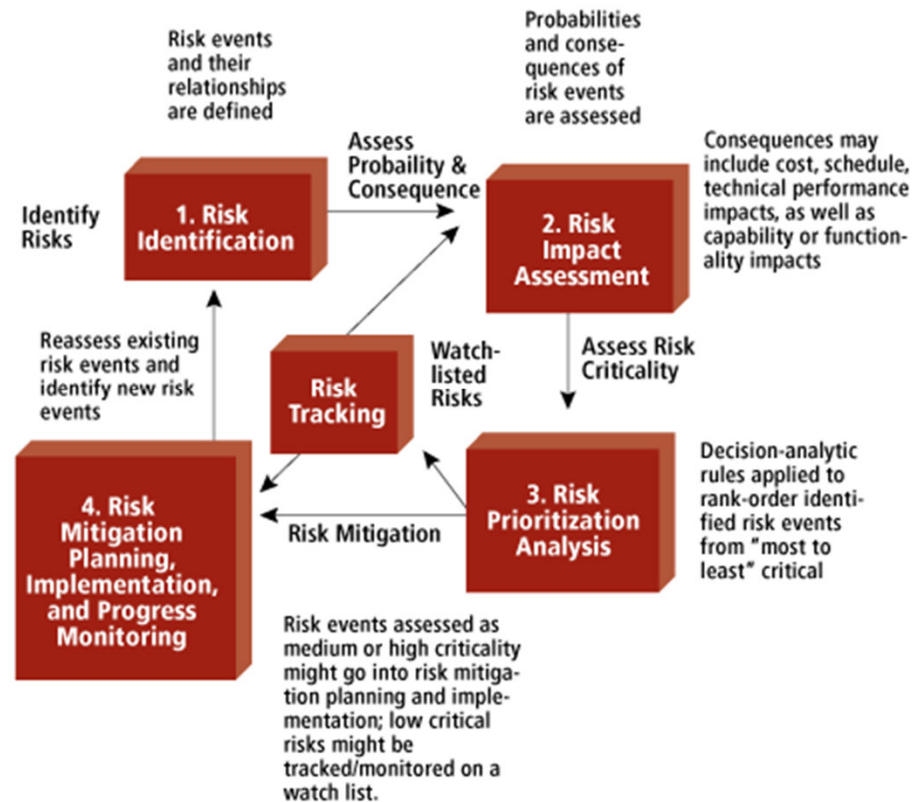


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# Identifying Strategies for Mitigating and Minimizing Hazards and Risks





# Prioritizing Risks and Allocating Grant Funding

		Impact →				
		Negligible	Minor	Moderate	Significant	Severe
Likelihood ↑	Very Likely	Low Med	Medium	Med Hi	High	High
	Likely	Low	Low Med	Medium	Med Hi	High
	Possible	Low	Low Med	Medium	Med Hi	Med Hi
	Unlikely	Low	Low Med	Low Med	Medium	Med Hi
	Very Unlikely	Low	Low	Low Med	Medium	Medium



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# Allowable Activities Covered by HMEP Grant Funding

## HMEP Grant funds are for:

- The planning needs of Local Emergency Planning Committees (LEPCs) to develop, improve and carry out emergency plans under EPCRA Act of 1986;
- The States, Territories, and Native American need for regional hazardous materials emergency response teams;
- To train public sector employees to respond to accidents and incidents in transportation involving hazardous materials.



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# Allowable Activities Covered by HMEP Grant Funding

## Types of activities allowable under HMEP grant:

- Updating or writing emergency plans;
- Tabletop exercises;
- Commodity flow studies;
- Risk Analysis;
- Awareness, operation, specialist, and technician level hazmat training;
  - Training must be NFPA 472 or OSHA [29 CFR § 1910.120](#) compliant
- Crude oil response training.



# Diversifying and Leveraging Grant Funding

To maximize your Federal funding, considering leveraging funding from multiple granting agencies.

Examples:

- Multi-scenario drills and exercises involving funding priorities from each grantor (Federal agency)
- Training classes
- Equipment purchases
- Other innovative opportunities to



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## Summary

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# QUESTIONS?



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