

# HAZMAT ATTACK 2.0

HMEP Symposium

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9:30-10:40 AM

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# HAZMAT **ATTACK** RULES

- The game will be played as tables against other tables.
- Individuals sitting at the same table will play as one player on the game board.
- All players begin at the Start space.
- Each table will roll dice to determine how many spaces can be moved if the subsequent question is answered correctly.
- If the question is not answered correctly, the table may not move any spaces.
- After the question is read, each table will have 30 seconds to agree on an answer. The table will find the letter card that matches their selected answer and hold up the card.



# HAZMAT **ATTACK** RULES CONTINUED

- Once the answer is revealed on screen, tables will move as many steps as allowed per the dice roll.
- If landing on a movement space (**red** or **blue** dot), move your game piece according to the instructions.
- If landing on a limbo space (**green** dot) follow the green arrows to LIMBO.
- Spaces with white dots are used to help players navigate out of LIMBO.
- The winner is the table who reaches finish and shouts **“Hazmat Attack”** first OR the table farthest around the game board when the facilitator calls the end of the game.



# HAZMAT ATTACK



# HAZMAT ATTACK

In 2008, EPA performed a survey of the nation's LEPCs. At the time of that survey, how many LEPCs were there in the United States?

- A. A little less than 1,000
- B. A little less than 2,000
- C. A little more than 3,000
- D. A little more than 9,500



# ANSWER

**C. A little more than 3,000**

*Hazmat Roundtable Meeting Report - Planning Mission Area*



# HAZMAT ATTACK

According to the DOT Bureau of Transportation Statistics, which state ships the greatest amount of hazardous materials?

- A. Louisiana
- B. California
- C. Alaska
- D. Texas



# ANSWER

## D. Texas

- 911,558,000 tons (more than 4 times the amount shipped by the second highest shipping state – Louisiana – which ships 228,655,000 tons)

*Hazmat Roundtable Meeting Report - Planning Mission Area*



# HAZMAT ATTACK

In 2007, mixtures containing more than 2.2% iodine were placed on DEA's Schedule 1 controlled substances list. Why?

- A. Because iodine is used in clandestine drug labs to produce methamphetamine.
- B. Because the Iraq war had interrupted the flow of iodine manufactured in Iraq.
- C. Because iodine producers had been limiting access to raise prices.
- D. Because iodine is a critical component in the construction of Improvised Explosive Devices (IEDs).



# ANSWER

## **A. Because iodine is used in clandestine drug labs.**

- This action was taken because of the continued use of iodine for the illicit production of amphetamine and methamphetamine. In 2007, methamphetamine was the leading controlled substance clandestinely manufactured in the United States.

*Hazmat Roundtable Meeting Report - Prevention Mission Area*



# HAZMAT ATTACK

The NFPA 704 Marking System is used in which of the following situations?

- A. Rail, highway, water, and air transportation of hazardous materials
- B. Buildings and fixed facilities containing hazardous materials
- C. Pipeline transportation of hazardous materials
- D. All of the above



# ANSWER

## **B. Buildings and fixed facilities containing hazardous materials**

*Hazmat Roundtable Meeting Report - Prevention Mission Area*



# HAZMAT ATTACK

About 25,000 shipping containers, each the size of a small home, enter the nation's 361 ports each day. U.S. Customs and the U.S. Coast Guard enforce security at the ports. Many of these containers carry un-itemized hazardous materials along with other materials and products.

What percentage of containers actually get checked at our ports?

- A. None
- B. 5.6 %
- C. 16.2%
- D. 23.1%



# ANSWER

## B. 5.6 %

- U.S. officials conduct gamma screening or manual inspection of only 5.6 percent of all imported containers.

*Hazmat Roundtable Meeting Report - Prevention Mission Area*



# HAZMAT ATTACK

In which zone should the decon corridor be located, where patients, personnel, and equipment are decontaminated?

- A. Hot zone
- B. Warm zone
- C. Cool zone
- D. Cold zone



# ANSWER

## B. Warm zone

- In that way, patients, personnel and equipment will be decontaminated before coming into contact with unprotected personnel outside the warm zone.

*Hazmat Roundtable Meeting Report - Response Mission Area*



# HAZMAT ATTACK

Since the promulgation of the Emergency Planning and Community Right-to-Know Act (EPCRA), related regulatory requirements (such as Process Safety Management, and the Oil Pollution Act), and industry-based preparedness and management programs (such as TRANSCAER and CHLOREP), the number of “working” hazmat incidents has substantially decreased. This is a positive accomplishment that reflects the gains achieved through planning, accident prevention, and risk management efforts. However, the risks of hazmat accidents still exists.

In 2017, how many hazmat incidents of hazmat spills during transit occurred?

- A. 1,224
- B. 3,391
- C. 9,946
- D. 12,908



# ANSWER

## B. 3,391

- In 2017, PHMSA reported a total of 3,391 incidents of hazmat spills during transit.

*Hazmat Roundtable Meeting Report - Response Mission Area*



# HAZMAT ATTACK

Under NFPA 472, are responders who are trained to the Awareness level considered qualified to participate in a hazmat incident response?

- A. Yes
- B. No



# ANSWER

## B. No

- Under NFPA 472, all responders participating in the response should be trained as a minimum to both the Awareness and Operations levels. NFPA 472 also recommends that responders who will be assigned tasks such as spill or fire control be trained to appropriate Operations Mission-Specific levels as well as the Awareness and Operations levels.
- This is in contrast with the older OSHA 1910.120q standard that considers responders trained to the awareness level only to be able to participate within their capabilities in the hazardous materials incident response.

*Hazmat Roundtable Meeting Report - Training Mission Area*



# HAZMAT ATTACK

Volunteer firefighters can sometimes have difficulty attending hazmat training because of time challenges due to family, work, and community service demands.

As of 2014, there were around 1,134,400 firefighters serving in 27,198 fire departments nationwide and responding to emergencies from 58,150 fire stations.

How many of these firefighters were volunteers?

- A. Approximately one-third
- B. Approximately one-half
- C. Approximately two-thirds
- D. Almost all – nearly 90%



# ANSWER

## C. Approximately two-thirds

- Of the 1,134,400 firefighters, 31% or 346,150 were career firefighters and **69%** or **788,250** were volunteers.

*Hazmat Roundtable Meeting Report - Training Mission Area*



# HAZMAT ATTACK

Most hazmat response photos used in training depict male firefighters, and training systems are encouraged to increase the depictions of women in those visuals as part of an effort to increase the number of women in the emergency services.

Today, based on estimates by the International Association of Women in Fire and Emergency Services (IAWFES), what percentage of career firefighters and fire officers are women?

- A. Approximately 2%
- B. Approximately 7%
- C. Approximately 12%
- D. Approximately 16%



# ANSWER

## A. Approximately 2%

- The IAWFES estimates there are 6,140 women in the career fire service.
- USFA statistics count 321,700 members of the career fire service.
- $6,140 / 321,700 = 1.9\%$

*Hazmat Roundtable Meeting Report - Training Mission Area*



# HAZMAT ATTACK

Which state had the highest number of hazmat incidents in 2018?

- A. California
- B. North Dakota
- C. Ohio
- D. Texas



# ANSWER

A. California



# HAZMAT ATTACK

What was the total reported costs in damages resulting from reported hazmat incidents in 2018?

- A. \$113,383,709
- B. \$95,215,044
- C. \$43,651,636
- D. \$21,397,012



# ANSWER

A. \$113,383,709



# HAZMAT ATTACK

The total number of reported hazmat incidents in 2018 was:

- A. 11,631
- B. 15,071
- C. 19,846
- D. 27,298



# ANSWER

C. 19,846



# HAZMAT ATTACK

How many registrations did PHMSA receive in FY2018?

- A. 19,574
- B. 23,841
- C. 39,277
- D. 51,910



# ANSWER

C. 39,277



# HAZMAT ATTACK

Which Sections of EPCRA apply to the HMEP Grant?

- A. Emergency Release Notification (§ 304, 42 U.S.C. § 11004)
- B. Community Right-to-Know Reporting Requirements (§§ 311-312, 42 U.S.C. §§ 11021-11022)
- C. Emergency Planning (§§ 301-303, 42 U.S.C. §§ 11001-11003)
- D. Toxic Chemical Release Inventory Reporting (§§ 313, 42 U.S.C. § 11023)



# ANSWER

## C. Emergency Planning (§§ 301-303, 42 U.S.C. §§ 11001-11003)



# HAZMAT ATTACK

The Federal agency responsible for regulating hazardous materials transportation is:

- A. The Environmental Protection Agency
- B. The Department of Labor
- C. The Department of Transportation
- D. The Federal Emergency Management Agency



# ANSWER

## C. The Department of Transportation



# HAZMAT ATTACK

What legislation allowed the HMEP grant to adopt a 3-year performance period?

- A. MAP 21
- B. The FAST Act
- C. HMEP Act
- D. PHMSA Grants Act



# ANSWER

## B. The FAST Act



# HAZMAT ATTACK

What percentage of Management and Administration is allotted to HMEP grantees?

- A. 25%
- B. 10%
- C. 40%
- D. 20%



# ANSWER

A. 25%



# HAZMAT ATTACK

What website would you find the HMEP grant funding opportunity?

- A. Dot.gov
- B. PHMSA.dot.gov
- C. Grants.gov
- D. Grantsolutions.gov



# ANSWER

C. Grants.gov



# HAZMAT ATTACK

Which Federal regulation codifies Federal grant administration?

- A. 2 CFR 200
- B. 49 CFR 110
- C. 49 CFR 120
- D. 2 CFR 100



# ANSWER

A. 2 CFR 200



# HAZMAT ATTACK

The State of Calisota has responded to over 30 meth lab explosions in the last year and would like to submit an activity request for training to ensure responders are prepared for these specific incidents. Is this allowable under the HMEP program?

- A. Yes
- B. No, because there is no transportation tie-in
- C. Yes, if the trailer is operable
- D. No, it is never allowable



# ANSWER

**D. No, it is never allowable**



# HAZMAT ATTACK

Once the performance period has ended, Grantees have how many days to submit final reports to PHMSA?

- A. 60 days
- B. 30 days
- C. 90 days
- D. 10 days



# ANSWER

C. 90 days



# HAZMAT ATTACK

The best way to obtain a grant from PHMSA is to:

- A. Know someone in an PHMSA program office who is interested in the work of your organization.
- B. Submit an unsolicited proposal.
- C. Respond to an PHMSA solicitation on [www.grants.gov](http://www.grants.gov).
- D. Develop a project and submit it to EPA after it is complete to obtain funding.



# ANSWER

**C. Respond to a PHMSA solicitation on [www.grants.gov](http://www.grants.gov).**



# HAZMAT ATTACK

Proposed grant budgets must be:

- A. Based on a good guess as to what a grant project will cost to complete.
- B. Based on complete, accurate, and current data.
- C. Based on the final cost to complete the grant project.
- D. Exact, as they cannot be changed.



# ANSWER

**B. Based on complete, accurate and current data.**



# HAZMAT ATTACK

Which course is unallowable under PHMSA's HMEP grant?

- A. Pro Board® accreditation and certification
- B. Emergency Preparedness Presentation to Child Care Providers
- C. Mobile Meth Lab Training
- D. All of the above



# ANSWER

D. All of the above



# HAZMAT ATTACK

Which is an allowable course under PHMSA's HMEP grant program?

- A. Hazmat for Dispatcher
- B. Joint Terrorism Task Force (JTTF) Exercises
- C. Weapons of Mass Destruction (WMD) Radiological Training
- D. All of the above



# ANSWER

## A. Hazmat for Dispatcher



# HAZMAT ATTACK

Funding for the HMEP grants program comes from:

- A. Taxpayers
- B. User Fees from Industry
- C. Voluntary donations
- D. Penalty fees received by PHMSA



# ANSWER

## B. User Fees from Industry



# HAZMAT ATTACK

Grantees (States and Tribes) are required to provide a 20% match. Which of the following is not an allowable way to match?

- A. Cash (hard-match)
- B. Property
- C. Funds from another federal grant
- D. Third party contributions



# ANSWER

C. Funds from another federal grant



# HAZMAT ATTACK

Billy is a training coordinator. He spends 50% of his time working on the HMEP grant and the remaining 50% working on a FEMA grant. Because the FEMA grant is much larger, Billy bills all of his time to the FEMA grant. Is this allowable?

- A. This is never allowable
- B. Allowable if permission is received from FEMA
- C. Allowable because it's all coming from the same funding source
- D. Not allowable because FEMA will only cover the entire salary if the time spent working on the HMEP grant is less than 10%



# ANSWER

A. This is never allowable



# HAZMAT ATTACK

May a grantee provide its 20% match using donated services (volunteers)?

- A. No. This is never allowable.
- B. Yes, only if the value is determined by pay for similar work in the grantee's organization.
- C. Yes, only if it is a student intern receiving course credit.
- D. Yes, if the grantee receives special permission from PHMSA.



# ANSWER

**B. Yes, only if the value is determined by pay for similar work in the grantee's organization.**



# HAZMAT ATTACK

When may PHMSA audit a recipient agency?

- A. PHMSA may audit a recipient agency at any time.
- B. PHMSA may audit a recipient agency if a complaint is filed.
- C. PHMSA may never audit a recipient agency. Audits must be conducted by the Office of Inspector General.
- D. PHMSA may audit a recipient agency if it receives permission from the recipient agency.



# ANSWER

**A. PHMSA may audit a recipient agency at any time.**



# HAZMAT ATTACK

Which preparedness expenditure is listed as conditionally allowable in PHMSA's Expenditures Guide?

- A. Statewide conference emphasizing hazmat emergency response
- B. Hospital Drills
- C. Fire Department Instructors Conference (FDIC)
- D. All of the above



# ANSWER

## D. All of the above:

- Statewide conferences - Conditions include: transportation hazmat-themed schedule
- Hospital Drills - Conditions include: Decontamination from a transportation incident
- Fire Department Instructors Conference (FDIC) - Conditions include: transportation hazmat-themed schedule



# HAZMAT ATTACK

May PHMSA request funds back from a grant recipient?

- A. No, once the Notice of Grant Award is signed, PHMSA cannot take any funds back.
- B. No, once the reimbursement is processed, PHMSA cannot take any funds back.
- C. Yes, if PHMSA determines that funds were expended on unallowable activities, PHMSA may request the funds back.
- D. Yes, only if the grant recipient determines that an error has been made during an audit.



# ANSWER

**C. Yes, if PHMSA determines that funds were expended on unallowable activities, PHMSA may request the funds back.**



# HAZMAT ATTACK

- Which activity requires prior approval under PHMSA's HMEP grant program?
- A. Activities not specified in the approved grant application
  - B. Budget revisions
  - C. Change in point of contact for the grant
  - D. All of the above



# ANSWER

## D. All of the above:

- Activities not specified in the approved grant application
- Budget revisions
- Change in point of contact for the grant



# HAZMAT ATTACK

How often must PHMSA submit a Report to Congress on all HMEP grant activities?

- A. Never
- B. Annually
- C. Every two years
- D. Every 5 years



# ANSWER

**B. Annually**



# HAZMAT ATTACK

What is the authorizing statute for the HMEP grants program?

- A. 49 CFR 110
- B. 49 CFR 120
- C. 49 USC 5128
- D. 49 USC 5116



# ANSWER

**D. 49 USC 5116**



# HAZMAT ATTACK

What type of costs will PHMSA allow for managing your grant project activities?

- A. Budgeted costs
- B. Actual costs incurred
- C. Grantee discretion
- D. This is an unallowable expense



# ANSWER

## B. Actual costs incurred

- Grants are awarded on a cost basis. That means that PHMSA will allow only actual (not budgeted) costs incurred for managing your grant project activities.



# HAZMAT ATTACK

What does the acronym LEPC stand for?

- A. Lithium Energy Partitioning Core
- B. Local Emergency Planning Commission
- C. Light Exercise Program Coordinator
- D. Latest Emergency Point of Contact



# ANSWER

## B. Local Emergency Planning Commission



# HAZMAT **ATTACK**

PHMSA's Office of Hazardous Materials Safety has recently focused on:

- A. Pipeline incidents
- B. Underground storage tanks
- C. Flammable liquids by rail (e.g. crude oil)
- D. Awareness level training (NFPA standard)



# ANSWER

C. Flammable liquids by rail (e.g. crude oil)



# HAZMAT ATTACK

- What was the incident that led to the creation of the HMEP grant program?
- A. Bhopal disaster (Bhopal, India)
  - B. Lac-Mégantic rail disaster (Canadian province of Quebec)
  - C. London School Explosion (New London, TX)
  - D. Bayer CropScience Explosion (Institute, WV)



# ANSWER

## A. Bhopal disaster (Bhopal, India)



# HAZMAT ATTACK

What piece of legislation authorized the HMEP grant program?

- A. The Hazardous Materials Safety Relief Act of 1989
- B. The HAZMAT Transportation Safeguard Act of 1992
- C. Hazardous Materials Transportation Uniform Safety Act of 1990
- D. The Community Safety Act of 1993



# ANSWER

## C. Hazardous Materials Transportation Uniform Safety Act of 1990



# HAZMAT ATTACK

What is the transportation phase where most hazmat incidents occur?

- A. In transit
- B. In transit storage
- C. Loading
- D. Unloading



# ANSWER

## D. Unloading



# HAZMAT ATTACK

Under Title III, the primary responsibility for developing a local plan for handling accidental releases of acutely toxic substances is the responsibility of:

- A. The State Emergency Response Commission
- B. The National Response Team
- C. The Local Emergency Planning Committee
- D. The Environmental Protection Agency



# ANSWER

## A. The State Emergency Response Commission



# HAZMAT ATTACK

EPCRA requires industries that store or use certain quantities of acutely hazardous substances to report them under what conditions?

- A. Only routine (day-to-day) releases
- B. Only accidental releases of a certain quantity
- C. Both routine and accidental releases of a certain quantity
- D. Every release in any quantity



# ANSWER

**B. Only accidental releases of a certain quantity**



# HAZMAT ATTACK

The local role in reducing public risks from hazardous materials includes:

- A. Developing an emergency plan for hazardous materials incidents
- B. Regulating hazardous materials transportation through local ordinances
- C. Regulating safe disposal of hazardous waste
- D. All of the above



# ANSWER

D. All of the above



# HAZMAT ATTACK

If you believe a local manufacturer is not in compliance with Title III, you should:

- A. Report the situation to the LEPC
- B. Sue the manufacturer
- C. Call a reporter
- D. Threaten the manufacturer



# ANSWER

**A. Report the situation to the LEPC**



# HAZMAT ATTACK

A tool that the HMEP grant program offers grantees to make post award activity changes to an approved grant application?

- A. Email, duh!
- B. Delphi
- C. Activity Request Portal
- D. GrantSolutions



# ANSWER

## C. Activity Request Portal



# HAZMAT ATTACK

What section was added to the ERG 2016 version that is not in the 2012 version?

- A. Table of Contents
- B. Globally harmonized systems (GHS) of classification and labeling of chemicals
- C. Information about emergency response assistance plans (ERAP) for Canadian users
- D. All of the above



# ANSWER

## D. All of the above

- Table of Contents
- Globally harmonized systems (GHS) of classification and labeling of chemicals
- Information about emergency response assistance plans (ERAP) for Canadian users



# HAZMAT ATTACK

Registration fees support PHMSA's Hazmat Grant program. What is the registration fee for small and not-small businesses?

- A. \$500 small business; \$1,000 not-small business
- B. \$200 small business; \$875 not-small business
- C. \$250 small business; \$2,575 not-small business
- D. \$650 small business; \$4,200 not-small business



# ANSWER

C. \$250 small business; \$2,575 not-small business



# HAZMAT ATTACK

The ERG is the go-to manual for the critical 1st \_\_\_ minutes of a hazmat transportation incident.

- A. 30 minutes
- B. 60 minutes
- C. 90 minutes
- D. 120 minutes



# ANSWER

**A. 30 minutes**



# HAZMAT ATTACK

Who is required to file an annual registration statement with the U.S. Department of Transportation and to pay a fee?

- A. Shippers of certain quantities and types of hazmat
- B. Offerors and transporters of all quantities and types of hazmat
- C. Shippers of all quantities and types of hazmat
- D. Offerors and transporters of certain quantities and types of hazmat



# ANSWER

**D. Offerors and transporters of certain quantities and types of hazmat**



# HAZMAT ATTACK

Initial training of new hazmat employees, or an employee who changes job functions, must be completed within \_\_ days of employment or change in job function.

- A. 90
- B. 7
- C. 30
- D. 60



# ANSWER

**A. 90 days**



# HAZMAT ATTACK

Training records must be retained for each hazmat employee for \_\_\_ years from the date of the last training, and for 90 days after the employee leaves.

- A. 2
- B. 5
- C. 3
- D. 10



# ANSWER

C. 3 years



# HAZMAT ATTACK

May hazmat employers/employees train and test themselves (an owner-operator)?

- A. This is never allowed
- B. Yes this is always acceptable
- C. Yes, if it meets the training requirements of §172.704
- D. Yes, only if the employee is a certified instructor



# ANSWER

**C. Yes, if it meets the training requirements of §172.704**



# HAZMAT ATTACK

In the absence of a negotiated Indirect Cost Rate Agreement, 2 CFR 200 allows what percentage as a *de minimis* rate?

- A. 25%
- B. 5%
- C. 15%
- D. 10%



# ANSWER

D. 10%



# Contact Information

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