# HAZARDOUS MATERIALS AWARENESS/OPERATIONS LEVEL COURSE



**TESTBOOK** 

### Test A (To be completed with Appendix A)

**Course:** Hazardous Materials Operations Level Course

**Subject:** Hazardous Materials Container Identification

	Container type		<b>Product Stored</b>
1		- A.	Nonpressure intermodal
2		- В.	Nonpressure facility tank
3		- C.	Bag
4		- D.	Nonpressure (Lowpressure) tank car
5		- E.	Cryogenic liquid facility tank
6		- F.	Drum
7		- G.	Cylinder
8		- Н.	Pressure tank car
9		– I.	Pressure facility tank
10		- J.	Cryogenic liquid cargo tank
11		- K.	Cryogenic intermodal
12		- L.	Pressure intermodal
13		- M.	Carboy
14		- N.	Pressure cargo tank
15		- O.	Corrosive liquid cargo tank
16		- P.	Cryogenic liquid tank car
17		- Q.	Non Pressure liquid cargo tank
18		- R.	Low Pressure liquid cargo tank

## Test B (To be completed with Appendix B)

Course:	Hazardous Materials Operations Level	Course
Subject:	Radioactive Materials Container Identif	ication
	Container Type	
1		A. Type B
2		B. Type A
3		C. Industrial
4.		D. Excepted

# Test C (To be completed with Appendix C)

# SKILLS TEST

Cours	urse: Hazardous Materials Operations Level Coun	rse
<u>Subje</u>	Pesticide Label Information	
1.	Name of Pesticide	
2.	Name of Signal Word	
3.	EPA Registration Number	
4.	Name of Precautionary Statement	
5.	Name of Hazard Statement	
6.	Name of Active Ingredient	
7.	Describe significance of information gathered:	
8.	Describe appropriate response actions for dealing with the ident	ified product.

# Test D (To be completed with Appendix D)

Course:	Hazardous Materials	
Subject:	Hazard and Response Information	n Identification
Objective:	Given safety data sheets (SDSs), a curr Guidebook (ERG), and shipping papers, for chemical provided.	
References:		
Skills	test handout (includes the scenario, SDSs,	shipping papers), and an ERG
Examinee's	Answer Sheet:	
Identify the fo	ollowing hazard and response information:	
<u>Chemical #1</u>	: (name)	
(UN ID #)		WHAT SECTION?
Physical and	chemical characteristics:	WHAT SECTION?
Physical state		
Boiling point		
	re	
Vapor density	y	
Specific grav	ity	
рН		
	2O)	
Physical appe	earance (color)	
Odor		
Physical haz	ards of the material:	WHAT SECTION?
Flash	point LEL (% in air) _	UEL (% in air)
Fire e	xtinguishing agents	

HCaiui Hazai (	th Hazards of the material: WHAT SECTION		SECTION?	
Target organs				
Route of entry	(circle all that	are applicable):	WHAT S	SECTION?
Inhalati Signs and sym	on ptoms of expo	Ingestion sure:	Absorption WHAT S	Contact SECTION?
ermissible ex	posure limits:		WHAT S	SECTION?
TLV/TV	WA	LC50/LD50	P	EL
PEL-C		STEL		
Responsible pa	arty contact:		WHAT S	SECTION?
Name o	f manufacturer			
Emerge	ncy contact nur	mber		
	r safe handling			SECTION?
Spill pr	ocedures (hygie	ene practices, protective	measures,	
Applicable cor	ntrol measures	including personal pro	otective equipment:	
Respira	tory protection			SECTION?
	•			

Name	o places where you can obtain an SDS
Name	o places where you can obtain an SDS

#### Test E (To be completed with Appendix E, F, G, & H)

# Appendix E What form of Transportation is this? Where would this paperwork be located? \_\_\_\_\_ Who has this paperwork? What is the Hazmat? For a small spill, what is the initial standoff distance? Appendix F What form of Transportation is this? Where would this paperwork be located? \_\_\_\_\_ Who has this paperwork? What are the Hazardous Materials? For a small spill, what is the initial standoff distance? Appendix G What form of Transportation is this? Where would this paperwork be located? Who has this paperwork? What is the Hazmat? For a small spill, what is the initial standoff distance? Appendix H What form of Transportation is this? Where would this paperwork be located?

# DOT ERG 2016 Exercise

- 1) Given a placard with only the number "1.4" visible, which Guide Number would you use until more information became available?
  - a. Guide 111
  - b. Guide 112
  - c. Guide 113
  - d. Guide 114
- 2) A cargo tanker identified as a DOT 412 is leaking and no other information is available. Which guide number would you use?
  - a. Guide 117
  - b. Guide 137
  - c. Guide 115
  - d. Guide 111
- 3) If the following placard is visible with no identification wording, which ERG guide page would you utilize?
  - a. Guide 111
  - b. Guide 125
  - c. Guide 159
  - d. Guide 136



- 4) What guide page would you use if the only detection clue available were a white over red placard?
  - a. Guide 136
  - b. Guide 155
  - c. Guide 112
  - d. Guide 148
- 5) What does the "X668" Hazard Identification Code on the top half of the orange panel affixed to intermodal containers means?
  - a. Poisonous flammable liquid and gas
  - b. Highly toxic substance, corrosive, which reacts dangerously with water
  - c. Highly corrosive solid emitting toxic gas
  - d. Corrosive liquid, flammable, which reacts dangerously with water

X668

2032

6) Which of the following is a U.S. Pipeline resource?

- a. American Energy Pipeline Association
- b. National Pipeline Mapping System

b.	UN 3278
c.	UN 2762
	UN 3279
	nk, rail car, or tank truck of this material (identified in question #7) is <u>NOT</u> involved in a fire, first LATE for:
a.	500 meters
b.	600 feet
c.	500 feet
d.	2640 feet
	rgo container of Liquefied gas, poisonous, flammable, n.o.s. is <u>on fire</u> , what is the recommended isolation ective action distance?
	1/2 mile
b.	2 miles
c.	1600 meters
d.	1900 meters
follo a. b. c.	um hydrosulfite (UN 1923) has a general hazard as substance-spontaneously combustible. Which of the wing extinguishing materials are recommended to utilize if there is a fire?  Carbon dioxide  Aqueous Film Forming Foam  Flooding amount of water  Dry chemical extinguisher, Dry sand, Soda ash, Lime
	small spill of the dangerous goods, "Other regulated substances, liquid, n.o.s.", first ISOLATE in all tions as an immediate precautionary measure?
a.	50 meters
b.	80 feet
c.	50 yards
d.	½ mile
12) What	t is the recommended initial isolation distance for a large spill of "Chloropicrin" not on fire?
a.	600 feet
	250 feet
c.	500 feet
d.	700 feet
	far should an incident commander establish initial isolation distances and downwind protection distances r all persons during a large spill of Sulfur Dioxide from multiple ton cylinders during nighttime conditions

c. Hazardous materials marking system

with moderate winds and not involved in fire?

a. 4 km / 2.5 miles

7) What is the UN # for Organophosphorus compound, poisonous, n.o.s.?

d. NFPA 704

a. UN 1955

- b. 1 mile / 1600 meters
- c. ½ mile / 1800 feet
- d. 6000 meters / 2.9 miles
- 14) A recommendation for emergency response and minimum evacuation distances for responders when dealing with a 4000L/1544 Gal propane (LPG) container involved with fire posing a BLEVE potential is?
  - a. 1600 meters / 1mile
  - b. 295 feet / 801 feet
  - c. 525 meters / 1,722 feet
  - d. 577 feet / 2169 feet
- 15) The mandatory evacuation distance and preferred evacuation distance for a SUV/Van with a potential IED is?
  - a. 400 feet / 2,400 feet
  - b. 263 meters / 1143 meters
  - c. 640 feet / 2.750 feet
  - d. 98 meters / 457 meters
- 16) "Ethylene Oxide" has a Guide Number of 119P. What hazard does the "P" represent?
  - a. Polymerizing material
  - b. Pyrophoric material
  - c. Polar miscible material
  - d. Polarizing material
- 17) This organization must be immediately notified for releases of dangerous goods and hazardous substances spilled into the environment a reportable quantity (RQ) of a hazardous substance or a material identified as a marine pollutant?
  - a. NRC
  - b. CANUTEC
  - c. CHEMTREC
  - d. DOT
- 18) What amount is considered to be a small spill in the DOT ERG?
  - a. Approximately 3785 liters (1000 gallons) or less
  - b. Approximately 200 liters (50 gallons) or less
  - c. Approximately 208 liters (55 gallons) or less
  - d. Approximately 37 liters (10 gallons) or less
- 19) The emergency number to contact the Nationwide Poison Control Center (US only) is?
  - a. 1-800-851-8061
  - b. 1-800-424-9300
  - c. 1-800-222-1222
  - d. 1-888-226-8832

## Test G (To be completed with Appendix L)

#### AWARENESS

Discussion #1		
Discussion #2		
	OPERATIONS	
Discussion #4		
Discussion #5		

Discussion #6	 	 	
Discussion #7			
Discussion "			
Discussion #8			
Discussion #9			

Discussion #10			
Discussion #11			
Discussion #12			