Module Title: Introduction to Hazardous Materials and Scene Safety

Target Audience: New firefighters with basic or no knowledge of hazardous materials, how to identify if they are dealing with hazardous materials, and the steps to responding safely to the hazardous materials incident.

Learning Objectives:

- 1. Define what a hazardous material is.
- 2. Summarize the steps for how to safely respond to a hazardous materials incident.

Seat Time: 30 minutes

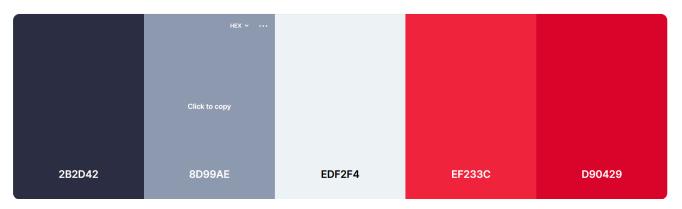
Outline:

- Introduction/Welcome
- Navigation
- Firehouse Scenario
- Pre-Assessment
- Case Study
- Learning Objectives
- What is a Hazardous Material (Objective 1)
- The Practical Definition
- Knowledge Check
- The Importance of Safety (Objective 2)
- Safety, Isolate, Notify
- Summary/Restatement of course objectives
- Intro Slide to assessment
- Assessment
- Course completion/Congratulations

Directions: Please make sure objectives meet desired training outcomes. I want to ensure that the avatars/characters are believable in the scenarios including their dialogue and interactions.

Module Resources/References: https://www.phmsa.dot.gov/sites/phmsa.dot.gov/files/2021-01/ERG2020-WEB.pdf

Color Palette:



Slide 1.1 Menu Title: Welcome	Slide 1.1 Menu Title: Welcome		
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
No top/bottom border	[Slide Title]	Welcome to the Introduction to	The Start and Navigation
	Hazardous Materials and	Hazardous Materials and Scene Safety	buttons will fade in timed with
Background image:	Scene Safety	eLearning course. In this course, you will	the VO reference.
Photographic image firefighters		learn the importance of responding	
attacking a fire (stock image)	[Buttons]	safely to a hazardous materials call.	The Start button will jump to
	START		slide 1.3
Course title set in semitransparent		If you are familiar with the course	
shape overlaying the background	NAVIGATION	navigation player, click the Start button	
image		to begin. If you would like some guidance	
		with navigating the course, click the	
Custom Start and Navigation		Navigation button.	
buttons.			
		When you're ready, let's get started.	

Slide 1.2 Menu Title: Navigation			Objective: [#]
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Player shows Menu on the left. Background image: Same photographic image used on	[Slide Title] Navigation [Directions] Use these options to	Please take a moment to review the course player so you feel comfortable navigating through the course. If you know your way around, you may proceed to the next slide.	Callout shapes with text labels will fade in timed with their reference in the audio.
Welcome slide but semitransparent.	navigate the course. [Callouts]	If you'd like to go backward or forward in the course, click the previous or next	
Callout shapes with labels point to player features.	Next Previous Accessibility Volume Replay Seek bar Play/Pause Menu Resources	buttons. Accessibility options are located here. To adjust the volume, click the volume icon. Click the replay button to see the entire slide again or adjust the seek bar at any time to review a portion of the slide. You can also pause the player. Click the same button again to resume playing. Revisit a slide by using the menu on the left. Finally, click the Resources tab to learn more about Privacy by Design. Click the next button now to begin the course.	

Slide 1.3 Menu Title: Firehouse Scenario			Objective: [#]
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Firehouse engine bay setting	[Slide Title] Firehouse Scenario	[Anton] [1] Wow! That was easy. Who knew the	The thought and callout text will be displayed on the slide
This slide begins with just the avatar		key to understanding how to respond to	timed with the VO audio.
of Anton (probationary firefighter)	[Anton callout]		

on the right side of the slide facing the learner. Maria avatar (an experienced firefighter) will appear on the left side of the slide facing right. Anton avatar will stay on the right side of the slide and face the left where Maria is once she enters.

The two avatars are slightly offset to the right of the slide, not centered.

Thought bubbles and callout shapes track Anton's thoughts and their conversation on screen. As Anton and Maria converse, the callout shape will remain between them.

Anton avatar has 3 poses: thinking, excited, conversing

Anton changes from thinking to excited between his first two thought bubbles, then settles on conversing after Maria enters. Fire alarm is displayed on the far wall of the engine bay.

Wow! That was easy. Who knew the key to understanding how to respond to a hazardous materials call was just memorizing some colors!

[Maria callout] Hey Anton! What are you up to?

[Anton callout]
Oh, hey Maria!
I just finished going back
over the emergency
response guidebook.

[Maria callout] That's great! I thought I overheard you saying something about memorizing colors...

Have you reviewed what you need to do once you get on the scene?

[Anton callout]
I just focused on the colors...I'm sure as long as I have those memorized, I will be ready for anything!

a hazardous materials call was just memorizing some colors!

[Maria]

[2] Hey Anton! What are you up to?

[Anton]

[3] Oh, hey Maria! I just finished going back over the emergency response guidebook.

[Maria]

[4] That's great! I thought I overheard you saying something about memorizing colors...

Have you reviewed what you need to do once you get on the scene?

[Anton]

[5] I just focused on the colors...I'm sure as long as I have those memorized, I will be ready for anything!

[Narrator]

[6] Click on the fire alarm to see what happens next.

Slide begins with Anton alone in the firehouse setting thinking aloud to himself.

Move Maria along motion path to enter the room from the right before the audio plays for her first line. Maria avatar changes from walking to conversing once she completes her motion path into the room. Maria then appears on the right facing left.
Callout shapes track their conversation, with slide text fading in and out timed with the VO

When VO directs the learner to click on the fire alarm, a hotspot on the clock will trigger jumping to the next slide along with the sound of a fire alarm going off.

Directions to click on the fire alarm will fade in with the VO.

A short video of a fire truck responding to a call plays to inform the learner that Anton left the firehouse for an emergency call. The slide

	[Directions] Click on the fire alarm to	automatically advances to the next scene after the video.
	find out what happens next.	The Next button will be hidden on this slide.
Notes:		

Slide 1.4 Menu Title: Firehouse Scena	ario 2 [Hidden from Menu]		Objective: [#]
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
		Narration / Voiceover: [Maria] [1] Anton, you really need to think about what you are doing when we have a hazardous materials call. You really could have hurt yourself or someone else on that call! [Anton] [2] But I really thought knowing just the colors would help. I don't understand why this is so complicated.	Animation / Interaction: The callout text will be displayed on the slide timed with the VO audio. This slide and the following slide should be hidden in the Menu so that it appears to the learner that slides 1.3, 1.4, and 1.5 are all a continuation of the same slide.
	knowing just the colors would help. I don't understand why this is so complicated.	[Maria] [3 It isn't necessarily complicated, Anton. You need to understand what challenges hazardous material calls present and how to	Callout shapes track their conversation, fading in and out timed with the VO. When the timeline ends, the
	[Maria callout] It isn't necessarily complicated, Anton. You need to understand what challenges hazardous material calls present and how to properly and safely respond to them.	properly and safely respond to them. It's not about memorization. We have guides to help with that. Safety, however, has to be practiced. [Anton] [4]okay, Maria. Where do I start?	slide auto advances to the next slide with a pre-assessment question. The Next button will be hidden on slides this slide.

It's not about memorization. We have guides to help with the Safety, however, has to practiced.	at.
[Anton callout] okay, Maria. Whe do I start?	re
Notes:	

Slide 1.5 Menu Title: Firehouse Scenario 3 [Hidden from Menu] Objective: [#]				
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:	
A large rectangle is centered on the slide and holds the preassessment question, directions, and answer choices. White space around the rectangle. The rectangle should use	[Preassessment question] What did Anton fail to recognize when he	[Narrator] [1] Think about how Anton approached his knowledge of hazardous materials. What should Anton have understood clearly before he responded to an incident involving hazardous materials?	Rectangle with preassessment question, directions, and answer choices grow in from the bottom right corner of the slide with an entrance	
The answer choices appear below the question and directions and are written in three smaller rectangles aligned left to right.	thought color was the only factor that determined how he responds to a hazardous materials incident? [Directions]	Click on the answer that you think is best. [Narrator – Left Audio] [2] Not quite. It is true that hazardous materials identification requires far more analysis than just looking at color.	animation. The VO begins once the question-and-answer choices finish their entrance animation.	
The right rectangle holds the correct answer. The selected state includes the text "YES."	Select the answer that you think is best. [Left Answer Choice –	Understanding color is one aspect of that multi-tiered approach to identification. [Narrator – Middle Audio]	Learner is restricted from clicking on the answer choices until the Question and Directions VO completes.	
The middle rectangle holds the least appropriate answer. The selected state includes the text "TRY AGAIN."	Wrong] Hazardous materials require much more	[3] NO. Though you will be guided in the right direction by the chemical ID number listed on a placard, you must also pay	Learners can click on any answer choice rectangle. Each	

The right rectangle holds the second-best choice. The selected state includes the text "TRY AGAIN."

analysis. Color is one quick way to identify what you are dealing with, but due to the variety of hazards transported it is not the sole factor.

[Middle Answer Choice – Wrong]
Hazardous materials
can't be identified by the
color of the placard. You
can only use the
chemical ID number to
properly identify the
material being
transported.

[Right Answer Choice – Correct]
Safety First. Responding to a hazardous materials call begins before you get in the apparatus.
Memorizing placards is not important. Scene safety is.

attention to the nature of the material, or color classification, you are dealing with.

[Narrator – Right Audio]
[4] Yes! It is important to understand that firefighters do not need to memorize a complex system of colors, numbers, and symbols. The most important part of responding to a hazardous materials incident is scene safety.

rectangle with text has a hover state.

Each answer choice triggers a different VO response and triggers "Correct" or "Try Again" to appear in place of the previous text, depending on the answer chosen. Learners can freely click among the answer choices to get feedback until they select the correct answer. Audio should not overlap, meaning if the learner clicks on one answer choice and the audio starts playing, it should stop if they click on another answer choice.

When the audio completes on the CORRECT answer (right), this slide will auto advance to Slide 1.6.

The Next button will be hidden on slides this slide.

Notes:

Slide 1.6 Menu Title: Learning Object			Objective: [#]	
/isual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:	
Same background as slide 1.4, so	[Slide Title]	[Maria]	Maria avatar begins in	
appears as if we are coming back to	Learning Objectives	[1] Listen, Anton, I know you have been	concerned pose. Anton begin	
where we left off before		working really hard trying to memorize	with an upset expression.	
preassessment question.	[Maria callout]	these placards, let me help you.		
	Listen, AntonYou are	I don't want you to experience this	When the VO says "I don't	
Anton avatar has 3 poses: 1st with	right to think about the color of the placard, but	frustration again.	want you to experience"	
same upset expression as when we	there are a few other	Tradition again.	Anton avatar changes to a	
eft him in slide 4; then he listening	important things to keep	Let's start at the beginning before we even	listening/content expression	
expression facing right; and then a	in mind when you are	get to the call and learn some basics to help		
smile expression facing left	responding to a	you be successful and safe!	When VO says "Let's start at	
Maria avatar has 2 passas First	hazardous material call.		the beginning" Maria avata	
Maria avatar has 2 poses: First	Let's work together to	By the time we finish, you'll know how to:	changes to smile with	
acing left with a concerned expression; then she changes to a	prepare you for what to		extended arm gesturing to le	
smile expression with an extended	look for before we get the next call.	define what a hazardous material is	As the VO says, "By the time	
arm gesture to the left.	Tiext call.	summarize the safety steps that need to	we finish" Maria avatar	
arm gestare to the left.	In this module, you will	be taken before responding to a hazardous	moves along a motion path	
The learning objectives will appear	learn to	materials call	the left to be closer to Antoi	
on the right half of the slide, to the			Anton avatar flips to face the	
eft of both avatars, which will be	[Learning Objectives]	[Narrator]	left and his expression change	
facing the learning objectives. The	define what a hazardous material is.	[2] Click on the next button to learn more.	to a smile.	
objectives text will appear in a	summarize the safety			
similarly styled rectangle as the	steps that need to be		On the left side of the screer	
preassessment question. The	taken before responding		the learning objectives text v	
ectangle should use multiple	to a hazardous materials		fade in timed with the VO.	
palette colors.	call			
	[Divertional		Directions to select Next wil	
	[Directions] Select the Next button to		appear on bottom right corn	
	continue.		of the screen and fade in tim	
			with the VO	

Slide 1.7 Menu Title: What is a Hazardous Material? The Challenge Objective: 1				
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:	
Background is one of the palette	[Slide Title] What is a	[Narrator]	This slide will have the avatars	
colors (lightened).	Hazardous Material?	The best place to start is understanding	set to the left of an area large	
Anton avatar is on the left and		what hazardous materials are. Let's work	enough to display the logos of	
Maria is on the right. They are	Click on each agency to	towards a definition that is practical in	four agencies that have slightly	
situated at the bottom of the	reveal their definition of	the field.	different definitions of what a	
screen so that only approximately	what a hazardous		hazardous material is. The	
2/3 of their bodies are shown on	material is.	When defining a hazardous material the	logos fade in timed with the	
the screen.		challenge is that there is not 1 consistent	narration.	
	[graphic of Department	definition and not 1 consistent approach.		
Maria avatar is explaining.	of Transportation]	You can get different definitions	The learner is instructed to	
Anton avatar is listening.		depending on the source. Looking at all	click on each logo to reveal the	
	"any chemical or item	of these there are some common traits.	agencies definition. The	
There are four graphics displayed:	that is a risk to public		narration will point out the	
OSHA, DOT, EPA and the U.S.NRC	safety or the	When you are ready, click on each	slight difference.	
	environment when	picture to read the definition applied to a		
Examples of hazardous materials	being transported or	hazardous material from that agencies	Each logo once clicked, takes	
fade in timed with narration.	moved in commerce"	perspective. Can you spot the	the learner to a new layer.	
		differences?	Once the definitions are	
	[graphic of		completed the slide will	
	Environmental	[Anton]	automatically advance to	
	Protection Agency]	Maria, that is a lot to remember!		
			There are two tabs dividing the	
	"any item or chemical	[Maria]	text block. One is labeled	
	which can cause harm to	You are right, Anton. Fortunately, we	definition and the other is	
	people, plants, or	have a practical definition that we can all	labeled Practical Definition.	
	animals when exposed	agree on.	The learner is restricted from	
	by spilling, leaking,		clicking on the tabs until the	
	pumping, pouring,		narration gives instructions to	
	emitting, emptying,		click on the first tab. The	
	dischargine, injecting,		second tab is restricted until	
	escaping, leaching,		the narration is complete on	
			the first.	

dumping, or disposing	
into the environment."	As the narration begins, there
	is a chart displaying a number
[Graphic of OSHA]	of hazardous materials
	placards information. This
"any substance or	fades out with narration and is
chemical which is	replaced with an official
hazardous to people's	definition.
health or is physically	
hazardous."	As the narration continues, the
	examples are displayed as
[graphic of U.N.NRC]	pictures. The learner is invited
	to click on each picture to
"any material that	reveal a definition of the
produces ionizing	material.
radiation."	
	As the narration continues,
Click next when you are	Maria explains that there is
ready to move on.	also a better definition to use
	when responding as a first
	responder.
	This definition fades in timed
	with the narration.

Slide 1.8 Menu Title: Ignoring the signs			Objective: 1
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Background is one of the palette	What are the	[Narrator]	This slide has a title question
colors (lightened).	consequences or poor	Now that we have a practical definition	meant to get the learner to
This slide has a lot of open space	planning?	of what a hazardous material is, let's take	think and see the impact of
leaving room for a video and some		a look at the tragic results of lack of	poor hazard awareness. The

introductory facts about when and	Incident Date: April 17,	training and hazard awareness and how	learner is given some brief
where this incident occurred.	2013	it transformed the lives of so many in	background about where the
		West, Texas in 2013	incident took place and the
	Incident Location: West,		time.
	Texas	Click play to view the video.	
			The learner controls the
	Hazard Involved:		playback of the video.
	Fertilizer grade		Following the video the learner
	ammonium nitrate		is advanced to the next slide
			automatically.
Notes:			

Slide [1.8]/Menu Title: Safety Precautions			Objective: 2
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Nearly the entire slide is taken up	[Slide Title]	[Narrator]	During the first part of the
by an accordion interaction.	Safety Precautions	First responders have one of the most	narration, a stock video will
Five tabs displaying the tab titles	[Numbered Tabs]	stressful jobs in the world. They go from	play inside the area that is the
take up about 1/3 to 1/4 of the	1 Annuarchine the	resting to responding in seconds. Heart	"cover" of the closed
accordion area, and are shown	1. Approaching the	rates increase, adrenalin rushes into the	accordion. The video should
vertically, leaving the remaining	scene	system, and thoughts rush through their	be related to the theme of
space for content to show within	2. Secure the scene	brains at speeds the average population	firefighter
the accordion frame.		does not experience. In an emergency, it	safety/training/responding to
	3. Identify the hazard	is imperative that first responders	a call.
The closed accordion will show on	4. Assess the situation	recognize that they are the help. They	
the screen to start.		need to respond in a safe manner with	When the VO reaches,
	5. Respond	the understanding that if they don't	"Technology has improved"
When the learner clicks on each	[Subtitle, shown on	make it to the call, or if they make a	the video will begin to fade
tab, it will pop to its open position	closed accordion]	mistake, that they then can become a	out. The video will end when
and display the information for that	ciosea accordionj	secondary call that requires those	the VO reaches, "it is
tab.	The five safety	responding to the original call to shift	important to understand"
	precautions to consider	resources and now respond to a second	

before and during a Each tab should be a different call. Technology has improved the first The title text and direction text responders' ability to have access to palette color. The layer associated hazardous materials call. will fade in timed with the VO with each tab, and therefore the information that was not always reference. [Directions, shown on "open" section of each accordion available in the past. It is important to closed accordion.] understand the steps to take before you area should have the same The learner will be able to click background palette color as the tab put on your gear and jump in the fire on the tabs, which will open Select each tab to learn truck. Failure to plan, is planning to fail. the accordion and show the for that section. more. Click on each tab to learn the steps you corresponding slide layer. should take and practice into your When the learner clicks on memory so that you respond safely each each tab, the accordion can time to a hazardous situation. "pop" open at the corresponding layer, or it can glide open. Each layer will show the accordion in the open position and have content related to the tab title. The Next button will be restricted until all 5 of the tabs have been selected and all 5 layers have been viewed. When the learner clicks on the next button, it will jump to slide 1.9. Notes:

Slide [1.8a]/Menu Title:			Objective: 2
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Unique image related to tab content shown on left side within	[Subtitle]	When arriving on the scene, it is important to understand that you are	Learner can select another tab from this layer or be
open accordion. Text is to the right of the image.	Approaching the Scene	beginning to "size up" the scene. You should be aware of your surroundings	automatically brought back to the base layer to select a new

Notes:	Subtitle displayed prominently within open section of accordion. Bullet points listed below.	 Approach cautiously from upwind, uphill, and/or upstream Stay clear of vapor, fumes, smoke, and spills. Keep vehicle at a safe distance from the scene 	including the weather, wind direction, and other conditions that exist that may pose a danger to you. Make sure you observe the scene from a safe distance using binoculars if necessary before you enter the area.	tab, depending on how the accordion interaction is developed.
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Slide [1.8b]/Menu Title:	Objective: 2		
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Unique image related to tab content shown on left side within open accordion. Text is to the right of the image. Subtitle displayed prominently within open section of accordion. Bullet points listed below.	[Subtitle] Secure the Scene Isolate the area. Protect yourself. Protect others	Once you have assessed the situation from a distance, it is time to secure the scene. Move bystanders away. It is important to do this keeping your own protection in mind. Utilize the resources you have such as your PA system to alert and protect members of the public from dangers.	Learner can select another tab from this layer or be automatically brought back to the base layer to select a new tab, depending on how the accordion interaction is developed.
Notes:			

Slide [1.8c]/Menu Title:			Objective: 2
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:

Notes:

Slide [1.8d]/Menu Title:			Objective: 2
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Unique image related to tab	[Subtitle]	Assessing the situation takes a team of	Learner can select another tab
content shown on left side within open accordion. Text is to the right of the image.	Assess the situation.	trained professionals. Sizing up your scene will require you to identify what hazard you are dealing with. Is there a	from this layer or be automatically brought back to the base layer to select a new
0	Fire, spill, or leak?	fire, a spill, or a leak? What are the	tab, depending on how the

Slide [1.8e]/Menu Title:			Objective: 2
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Unique image related to tab content shown on left side within open accordion. Text is to the right of the image. Subtitle displayed prominently within open section of accordion. Bullet points listed below.	[Subtitle] Respond • Wear appropriate PPE. • Do not become part of the problem.	After carefully approaching the scene, securing the scene, identifying the hazards, and assessing the situation, only now can you respond. It is important to understand that you must always consider the hazard when determining the appropriate Personal Protective Equipment. Some hazards require traditional bunker gear, while others may	Learner can select another tab from this layer or be automatically brought back to the base layer to select a new tab, depending on how the accordion interaction is developed.

•	Establish proper	require a hazardous materials suit. It is	
	communication.	also important to understand that	
•	Reassess	though your first reaction may be to rush	
	frequently.	in and rescue people, you must not do	
•	Safety first	this if you can place yourself in a	
	·	situation that makes you part of the	
		problem. This is hard as a first	
		responder, but important. You did not	
		create the problem. Do not become part	
		of it. Ensure that all lines of	
		communication are established properly	
		such as a command post and lines to	
		your local government agencies. As the	
		situation changes, you will need to	
		communicate these changes quickly.	
		Remember, safety of everyone, including	
		yourself is the number one priority.	
Notes:			·

Slide 1.9 Menu Title: Knowledge Check			Objective: 2
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Anton and Maria are arranged on a	[Slide Title]	[Anton]	Slide automatically advances
slide with a neutral background.	Knowledge Check	That's a lot of information to think about.	to the next slide when the
Between them conversation		I wasn't even thinking about all the steps	timeline ends on this slide.
bubbles are displayed on the screen	[Anton Caption]	I needed to take before I rushed in to	
displaying their conversation.	That's a lot of	help those people.	
	information to think		
Maria is smiling and talking.	about. I wasn't even	Now I understand that responding to a	
Anton is smiling and talking	thinking about all of the	hazardous materials call is so much more	
	steps I needed to take	than just getting on the fire truck and	
	before I rushed in to	rushing in to be a hero.	
	help those people.		

Now I understand that responding to a hazardous materials call is so much more than just getting on the fire truck and rushing in to be a hero.

[Maria caption]
You're right Anton!
There are a lot of safety
considerations before
you even arrive at the
scene. Knowing these
steps will help you
respond in a manner
which not only protects
the property, people, or
environment, but also
protects you and the
other first responders on
the scene.

Knowing this, why don't we go over some of the things you didn't consider the first time to make sure your next response is effective and safe?

[Maria]

You're right Anton! There are a lot of safety considerations before you even arrive at the scene. Knowing these steps will help you respond in a manner which not only protects the property, people, or environment, but also protects you and the other first responders on the scene.

Knowing this, why don't we go over some of the things you didn't consider the first time to make sure your next response is effective and safe?

Notes:

Slide 1.10 Menu Title: KC [Hidden fro	om menu]		Objective:
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
	[Knowledge Check] [Directions] Drag the images below to the corresponding step they should be performed in below. [Drag Items, and pictures; answers are provided in brackets but should not be included in slide text] Image for step 1 [approach cautiously] Image for step 2 [secure the scene] Image for step 3 [Identify the hazard(s)] Image for step 4 [Assess the situation]	Narration / Voiceover: [Narrator] Let's help Anton respond safely to a hazardous materials call. Below are five images labeled step 1 through 5. Drag the steps at the top of the screen into the correct order Anton should perform them into the images at the bottom. Click the submit button when you are finished.	Animation / Interaction: This slide is a freeform dragand-drop KC interaction. The 5 steps of responding to a hazardous materials situation are situated at the top of the screen stacked on top of each other in random order. They will be set in rectangles in one of the palette colors. Allow 2 attempts in the form settings. Arrange the dropped items so that once they are dropped the learner can see which step they dropped where. Each drag item should have a correct and incorrect state. Correct states appear as normal states. Incorrect states appear red. Delay the item states until the interaction is submitted.
	• Image for step 5 [Respond]		When the learner clicks submit it will show either the correct or try again feedback layer on the first attempt.

	Dropped items do not reset for
	the second attempt. The
	learner will drag the items
	from where they were
	dropped.
	After the second attempt the
	learner will see either the
	correct or incorrect layer.
Notes:	

Slide [1.10a]/Menu Title:			Objective: [#]
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Anton and Maria avatars are arranged on the slide layer the same way they were arranged on the base layer. Maria's expression changes to explaining. The steps are shown in the correct order.	[Slide Title] Correct [Directions] Click continue [Maria Caption] Great job! You've got it!	[Maria] Great Job! You've got it! [Narrator] Click the continue button to learn about how to read an emergency placard.	The correct and incorrect layers should be customized. Do not use the built-in buttons and textboxes. The continue button jumps to slide 1.12
Between the avatars are the caption for Maria and the Continue button with the slide text directions.			
Notes:			

Slide [1.10b]/Menu Title:		Objective: [#]	
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:

Anton and Maria avatars are	[Slide Title]	[Maria]	The correct and incorrect
arranged on the slide layer the	Incorrect	Almost. Since safety is the most	layers should be customized.
same way they were arranged on the base layer. Maria's expression changes to explaining.	[Directions] Click Review	important concept to understand, why don't we review before moving on.	Do not use the built-in buttons and textboxes.
The steps are shown in the correct	[Maria Caption]	[Narrator] The correct answers are shown here.	The Review button jumps to slide 1.11
order Between the avatars are the	Let's practice a little more.	Click on the Review button to review the steps you should take when responding to a hazardous materials call safely.	
caption for Maria and the review button with the slide text	[buttons]	to a mazardous materials call safety.	
directions.	Review		
Notes:			

Slide [1.10c]/Menu Title:			Objective: [#]
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Anton and Maria avatars are arranged on the slide layer the same way they were arranged on the base layer. Maria's expression changes to explaining.	[Slide Title] Try Again [Directions] Click Try Again [Maria Caption]	[Maria] It looks like you are starting to get it! [Narrator] Click the continue button to learn about how to read an emergency placard.	The correct and incorrect layers should be customized. Do not use the built-in buttons and textboxes. The try again button uses the
The steps are shown in the correct order Between the avatars are the caption for Maria and the Continue button with the slide text directions.	It looks like you are starting to get it!		same trigger that was originally on the built in button on this layer The continue button jumps to slide 1.11
Notes:		·	·

Slide [1.11]/Menu Title: Review [hide	e from menu]		Objective: [#]
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Anton and Maria avatars are	[Slide Title]	[Narrator]	[Show layer 1.11a when the
arranged on the slide layer the	Review	Click on the cards that you would like to	timeline starts on this layer]
same way they were arranged on the base layer. Maria's expression	[Directions]	review. When you are finished, click on the red fire siren.	This slide has a click to reveal
changes to explaining. Anton's expression changes to listening.	Click on the steps you would like to review.		interaction.
Set between them are boxes	Click on the red siren		The learner can click on each rectangle, and it will reveal the
labeled Step 1, Step 2, Step 3, Step 4, and Step 5.	when you are finished reviewing.		bulleted list of steps related to that category.
4, and step 3.	[Step 1 Card Front]		that category.
There is a red fire siren at the top of the page near the directions.	Step 1		There will be a red siren on the top of the screen.
	[Step 1 card back]		
The steps are shown in the correct order	Approaching the Scene		When the learner clicks on the siren a trigger will bring the
Between the avatars are the	Approach cautiously from		learner to layer 1.11b
caption for Maria and the Continue button with the slide text directions.	upwind, uphill, and/or upstream Stay clear of vapor, fumes, smoke, and spills.		The next button is hidden.
	Keep vehicle at a safe		
	distance from the scene. [Step 2 Card Front]		

 Step 2
Step 2 Card [Back]
Secure the Scene
 Isolate the area. Protect yourself. Protect others.
[Step 3 Card Front]
Step 3
[Step 3 Card Back]
Identify the Hazards
 Placards Container Labels Shipping papers Rail car and Road Trailer Identification Chart Safety Data Sheets Knowledge of persons on scene Emergency Guidebook guide page [Step 4 Card Front] Step 4 [Step 4 Card Back]

Assess
Assess the situation.
 Fire, spill, or leak? Weather conditions Terrain Who/what is at risk. Actions to take. Resources required. Obtain help.
[Step 5 Card Front]
Step 5
[Step 5 Card Back]
Respond
 Wear appropriate PPE. Don't become part of the problem. Establish proper communication. Reassess frequently. Safety first

Notes:		

Slide [1.11a]/Menu Title: Review [hide from menu]			Objective: [#]
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Anton and Maria avatars show through from the base layer. They are not placed on this layer. The steps from the base layer are hidden. [Place the objects from the base layer on this layer]	[Slide Title] Review [Maria Caption] Let's go back over these steps in order. You will get it!	[Maria] Let's go back over these steps in order. You will get it!	The caption text will be displayed on the layer with the VO audio. This layer will automatically hide when the timeline ends, showing the base layer of slide 1.11.
Maria's conversation is in the callout shapes. Notes:			

Slide [1.11b]/Menu Title: Review [hide from menu]			Objective: [#]
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Anton and Maria are in the same position. The assets are on the base	[Slide Title]	[Anton] [1] This is starting to make much more	The text directions to select the next button will appear
layer of the slide and showing	Review	sense to me now. Thank you for the	toward the end of the
through on this layer, as with layer 1.10a	[Directions]	review, Maria.	timeline.
1.10a	Select the Next button to continue	[Maria] [2] That's good to hear, Anton! Let's	The next button will be displayed when the timeline
	[Anton Caption]	review.	ends on this layer.

	This is starting to make much more sense to me now. Thank you for the review, Maria. [Maria Caption] That's good to hear, Anton! Let's review.
Notes:	

Slide 1.12 Menu Title: Summary				
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:	
This slide does not have the standard top/bottom border. Rather, the Summary title is placed at the very top left of the slide and the rest of the slide is framed with a rectangle with all assets set within the frame.	[Slide Title] Summary [Maria caption] It's time for your assessment. You'll answer 5 questions. You must earn 80% to pass. Here's a	[Maria] [1] It's time for your assessment. You'll answer 5 questions. You must earn 80% to pass. Here's a summary of what you learnedScene safety is priority number one. Before you can respond to the situation, you must ensure that the scene is safe. Then, approach the scene upwind. Never place yourself downwind from the	This slide has an entrance Fade transition of 1.25 seconds. The Take the Quiz Button fades in timed with the VO. The Next button is hidden on this slide.	
Maria avatar will appear on the left of the slide gesturing to the right. A caption bubble displaying her VO text will display to her right.	summary of what you learned [Summary Points] Safety:	incident. Secure the scene. Identify the hazard you are dealing with and then obtain the help you need. Call in as many resources as you need.	When the learner clicks the Take the Quiz button, advance to Slide 1.13.	
The Summary Points will appear on the right half of the slide, to the right of Maria avatar and caption, so she is facing the summary points.	Approach the scene only after: Securing Identifying hazards Assessing the situation Obtaining help	Remember that you don't need to memorize the placards. Understanding the basic four-color placarding system is key to understanding what hazard you are dealing with. Repetition, practice, and tabletop		

[Notes:			
A button with the same formatting as the Review and Continue buttons in the KC will appear below the Summary Points.	Every member responding is fully trained and competent in using the book [button] Take the Quiz	quiz" button.	
The summary text will appear in the same styled rectangle as the learning objectives. The rectangle should use multiple palette colors, same as with LO.	Placards: Don't memorize Every Apparatus has an updated ERG	exercises all play an important role in training your new members. [Narrator] [2] When you're ready, click on the "take the	

Slide 1.13 Menu Title: [All assessment slide titles should be hidden from the Menu]				
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:	
All 5 assessment question slides	[Slide Title]	[Narrator]	Score by question with 1	
should have the same layout and formatting.	Assessment [Directions]	Help Anton respond appropriately to the hazardous materials call. Select the best answer choice and click the submit	as the learner progresses through the quiz. They will be	
This slide does not have the standard top/bottom border. Rather, the Assessment title is	Select the Best answer choice and click Submit.	button when you are finished. Before Anton responds to a hazardous	able to Retake the entire quiz at the end if they do not pass.	
placed at the very top left of the slide. The rest of the slide uses a color from the palette as a solid background.	[Question] Before Anton responds to a hazardous materials call, what should he have a firm understanding of?	materials call, what should he have a firm understanding of?	Results slide 1.18; graded quiz slide – multiple choice. When the learner clicks Submit, submit multiple choice	
Anton avatar is shown on the right side of the screen facing to the left, as if to indicate that he is taking the quiz along with the learner.	[Answer Choices] 1. He should always be ready to put water on the fire as soon as possible.		and advance to next slide. The learner should not get immediate feedback with	

The directions appear on the top of	Water always makes the	Correct or Incorrect feedback
the slide to the right of the title bar.	situation better.	layers. They should answer all
The question text appears larger than the multiple-choice answer options, which are displayed below the question and to the left of Anton avatar.	2. Anton should make sure he does a complete size-up of the scene before entering. He should avoid rushing in above all else. [CORRECT ANSWER	the questions sequentially FIRST in the graded assessment, then receive their score on the Results page. If they do not pass, they can come back and review the quiz.
	3. Anton should get as close to the scene as possible so that he can identify the emergency hazard he is dealing with.	
Notes:		

Slide 1.14 Menu Title: [All assessment slide titles should be hidden from the Menu]				
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:	
Same visual display for slides, 1.13,	[Slide Title]	[Narrator]	Same settings for slides 1.13,	
1.14, 1.15, 1.16, and 1.17	Assessment [Directions] Select the Best answer choice and click Submit.	When responding to a hazardous materials call, how should Anton approach the scene?	1.14, 1.15, 1.16, and 1.17	
	[Question] When responding to a hazardous materials call, how should Anton approach the scene?			
	[Answer Choices]			

1. Anton should pay no attention to how he approaches the scene. The most important thing is getting as close to the incident as possible as quickly as possible.		
2. Anton should approach the scene from upwind, upstream, and/or uphill always paying attention to where he is in relation to the incident. [CORRECT ANSWER]		
3. Anton should immediately respond to the victims and/or those who are being immediately impacted by the incident.		
	attention to how he approaches the scene. The most important thing is getting as close to the incident as possible as quickly as possible. 2. Anton should approach the scene from upwind, upstream, and/or uphill always paying attention to where he is in relation to the incident. [CORRECT ANSWER] 3. Anton should immediately respond to the victims and/or those who are being immediately impacted by	attention to how he approaches the scene. The most important thing is getting as close to the incident as possible as quickly as possible. 2. Anton should approach the scene from upwind, upstream, and/or uphill always paying attention to where he is in relation to the incident. [CORRECT ANSWER] 3. Anton should immediately respond to the victims and/or those who are being immediately impacted by

Slide 1.15 Menu Title: [All assessment slide titles should be hidden from the Menu]				
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:	
Same visual display for slides, 1.13,	[Slide Title]	[Narrator]	Same settings for slides, 1.13,	
1.14, 1.15, 1.16, and 1.17	Assessment [Directions] Select the Best answer choice and click Submit.	Anton has completed all of the necessary safety steps in the correct order and by looking at the emergency placard on the truck becomes confused. What should Anton do immediately?	1.14, 1.15, 1.16, and 1.17	

	[Question]
	Anton has completed all of
	the necessary safety steps
	in the correct order and
	by looking at the
	emergency placard on the
	truck becomes confused.
	What should Anton do
	immediately?
	[Answer Choices]
	1. Since he sees red and
	associates that color with
	fire, he should
	immediately grab a fire
	hose.
	nose.
	2. Anton should
	immediately grab the
	Emergency Response
	Guidebook to look up
	the appropriate
	response. [CORRECT
	ANSWER]
	3. Since Anton is having a
	difficult time seeing the
	placard, he should move
	closer to the scene.
Notes:	
NOTES.	

Slide 1.16 Menu Title: [All assessment slide titles should be hidden from the Menu]			
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:

Same visual display for slides, 1.13,	[Slide Title]	[Narrator]	Same settings for slides, 1.13
1.14, 1.15, 1.16, and 1.17	Assessment	Why is it important for Anton not to rush	1.14, 1.15, 1.16, and 1.17
		into the scene without having the proper	
	[Directions]	protective gear on or having established	
	Select the Best answer	that the scene is safe to enter?	
	choice and click Submit.		
	[Question]		
	Why is it important for		
	Anton not to rush into the		
	scene without having the		
	proper protective gear on		
	or having established that		
	the scene is safe to enter?		
	[Answer Choices]		
	1. If Anton becomes		
	injured because he did		
	not practice safety or		
	wear the appropriate		
	protection he will divert		
	resources away from the		
	primary incident.		
	[CORRECT ANSWER]		
	2. Anton might miss		
	victims that are not		
	directly next to the scene.		
	3. Anton should not rush		
	because more help is		
	coming and there is		
	nothing Anton can do until		
	they arrive on scene.		

Slide 1.17 Menu Title: [All assessmen	Slide 1.17 Menu Title: [All assessment slide titles should be hidden from the Menu]				
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:		
Same visual display for slides, 1.13,	[Slide Title]	[Narrator]	Same settings for slides, 1.13,		
1.14, 1.15, 1.16, and 1.17	Assessment	Until you know exactly what material you	1.14, 1.15, 1.16, and 1.17		
		are dealing with, which response below			
	[Directions]	would be the best response?			
	Select the Best answer				
	choice and click Submit.				
	[Question] Until you know exactly what material you are dealing with, which response below would be the best response? [Answer Choices] 1. If it is on fire, put it out. 2. Get as many victims away from the danger as quickly as possible 3. Assume all materials are hazardous until				
	proven that they are				
	not. [CORRECT ANSWER]				
Notes:					

Slide 1.18 Menu Title: Results [Hide from Menu]			
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:

Color from palette is shows as background on slide.	[Slide Title] Results Your Score: XX% Passing Score: YY%	[Narration only on layers]	passing score. Show Failure layer 1.18b w less than passing score. Base layer will be visible (sl Failure slide layers. Results variable reference so not show the points variable variable.	hen timeline starts if results are now through) from Success or shows the percent score only. Table reference.

Slide 1.18a Menu Title:			
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Anton and Maria avatars appear, both happy. Green checkmark next to slide text	Congratulations, you passed. [button] Continue	[Narrator] Thank you for taking the quiz. Congratulations! You passed. You can review your results by clicking on the review quiz button. If you are satisfied with your results and ready to move on, please click on the continue button.	Review button: shows correct/incorrect response when reviewing Continue button jumps to Slide 1.19

Notes:				

Slide 1.18b Menu Title:			
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:
Anton and Maria avatars appear, both disappointed/concerned. Red "X" next to slide text	You did not pass. [buttons] Retake Quiz Review Quiz	[Narrator] Thank you for taking the quiz. Unfortunately, you did not pass. You can review your results by clicking on the review quiz button. When you are ready to try again, please click on the retake quiz button.	Retake button: resets results slide and jumps to Slide 1.13 Review button: shows correct/incorrect response when reviewing
Notes:	•		

Slide 1.19 Menu Title: Congratulations				
Visual / Display:	Slide Text:	Narration / Voiceover:	Animation / Interaction:	
This slide has a similar design as the Welcome slide. No top/bottom border	[Slide Title] Congratulations! You completed the course.	Congratulations on completing the introduction to hazardous materials and scene safety course. Now you have the base knowledge necessary to safely respond to a hazardous materials call.		
Background image: Photographic image of a group of firefighters walking back from a scene happily.				

Course title set in semitransparent shape overlaying the background image				
Notes:				