



MAINE FIRE SERVICE INSTITUTE
HAZARDOUS MATERIALS
 2024 NFPA 1010 – J&B 5th Edition

CANDIDATE

COMPANY #

TASK Performing Emergency/Field-Expedient Decontamination

SKILL DRILL 33.1.24 CANDIDATE “Correctly provide emergency decontamination at a hazardous
 OBJECTIVE FF HAZ MAT DIRECTIVE materials incident.”
 33.1-S-24
 REFERENCE J&B 5TH pg. EVALUATOR The candidate shall conduct emergency decontamination using the
 1337 INSTRUCTIONS appropriate equipment provided.
 JPR NFPA 470 7.3.1, 7.4.1, OUTCOME The candidate shall be able to correctly conduct emergency
 7.5.1 decontamination on a victim who has an unexpected exposure or
 contamination of product.

NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Confirm that you (the responder) have the appropriate PPE to protect against the contaminant. Stay clear of the product, and avoid physical contact with it, if possible. Try to contain run-off by directing the victim out of the hazard zone and into a suitable location for decontamination. It is not imperative to capture the run-off when you are in the process of performing emergency decontamination on an exposed person—removing the contaminant from the person is more important than capturing the run-off. Instruct the victim in removing contaminated clothing. If the victim is capable of removing their own clothing, this is the preferred method. It ensures the assisting responder will stay as clean as possible.				
2	*	Rinse the victim with copious amounts of water. Avoid using water that is too warm or too cold; room-temperature water is best. Provide or obtain medical treatment for the victim and arrange for the victim’s transport.				

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TASK **Donning a Vapor-Protective (Level A) Ensemble**

SKILL DRILL 35.1.24 CANDIDATE "Correctly don a Level A ensemble."
 OBJECTIVE FF HAZ MAT DIRECTIVE
 35.1-S-24

REFERENCE J&B 5TH pg. EVALUATOR The candidate shall be provided with the appropriate equipment to
 1374-1376 INSTRUCTIONS don a Level A ensemble.

JPR NFPA 470 9.2.1 OUTCOME The candidate shall be able to correctly don a Level A ensemble.

NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Conduct a pre-entry briefing, medical monitoring, and equipment inspection. Ensure that the selected level of protection is appropriate for the mission.				
2	*	While seated, pull on the suit to waist level; pull on the chemical boots over the top of the chemical suit. Fold the suit boot covers over the tops of the boots.				
3	*	Stand up, and don the SCBA frame and SCBA face piece, but do not connect the regulator to the face piece.				
4	*	Place the helmet on your head.				
5	*	Don the inner gloves.				
6	*	With assistance, complete donning the suit by placing both arms in the suit, pulling the expanded back piece over the SCBA, placing the chemical suit over your head, and donning the outer chemical gloves (if required).				
7	*	Instruct the assistant to connect the regulator to the SCBA face piece and ensure airflow.				
8	*	Instruct the assistant to close the chemical suit by closing the zipper and sealing the splash flap.				
9	*	Review hand signals and indicate that you are okay.				

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TASK **Doffing a Vapor-Protective (Level A) Ensemble**

SKILL DRILL 35.2.24 CANDIDATE "Correctly doff a Level A ensemble."
 OBJECTIVE FF HAZ MAT DIRECTIVE
 35.2-S-24

REFERENCE J&B 5TH pg EVALUATOR The candidate shall be provided with the appropriate equipment to
 1377-1378 INSTRUCTIONS doff a Level A ensemble.

JPR NFPA 470 9.2.1 OUTCOME The candidate shall be able to correctly doff a Level A ensemble.

NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	After completing the established decontamination procedure for the mission, proceed to the clean area for suit doffing. Pull your hands out of the outer gloves and your arms from the sleeves, and cross your arms in front inside the suit.				
2	*	Instruct the assistant to open the chemical splash flap and suit zipper.				
3	*	Instruct the assistant to begin at the head and roll the suit down and away until the suit is below waist level.				
4	*	Instruct the assistant to complete rolling the suit from the waist to the ankles; step out of the attached chemical boots and suit.				
5	*	Doff the SCBA frame. The face piece should be kept in place while the SCBA frame is doffed.				
6	*	Take a deep breath and doff the SCBA face piece; carefully peel off the inner gloves, and walk away from the clean area. Go to the rehabilitation area for medical monitoring, rehydration, and personal decontamination shower. After use, ensure that the garment is inspected, maintained, and stored (or disposed of) in accordance with the manufacturer's guidelines and the AHJ's policies and procedures.				

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TASK **Donning a Liquid Splash–Protective (Level B) Non-encapsulated Ensemble**

SKILL DRILL OBJECTIVE REFERENCE JPR NFPA 470	35.3.24 FF HAZ MAT 35.3-S-24 J&B 5 TH pg01380- 1381 9.2.1	CANDIDATE DIRECTIVE EVALUATOR INSTRUCTIONS OUTCOME	“Correctly don a level B non-encapsulated chemical-protective clothing ensemble.” The candidate shall be provided with the appropriate equipment to don a Level B non-encapsulated chemical-protective clothing ensemble. The candidate shall be able to correctly don a Level B non-encapsulated chemical-protective clothing ensemble.
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NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Conduct a pre-entry briefing, medical monitoring, and equipment inspection. Ensure that the selected level of protection is appropriate for the mission.				
2	*	Sit down, and pull on the suit to waist level; pull on the chemical boots over the top of the chemical suit.				
3	*	Don the inner gloves.				
4	*	With assistance, complete donning the suit by placing both arms in the suit and pulling the suit over your shoulders. Instruct the assistant to close the chemical suit by closing the zipper and sealing the splash flap.				
5	*	Don the SCBA frame and SCBA face piece, but do not connect the regulator to the face piece.				
6	*	With assistance, pull the hood over your head and the SCBA face piece. Place the helmet on your head. Put on the outer gloves (over or under the sleeves, depending on the AHJ requirements for the incident). Instruct the assistant to connect the regulator to the SCBA face piece, and ensure you have airflow. Review hand signals and indicate that you are okay.				

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TASK **Donning a Liquid Splash–Protective (Level C) Ensemble**

SKILL DRILL **35.5.24** CANDIDATE DIRECTIVE **“Correctly don a Level C chemical-protective clothing ensemble.”**
 OBJECTIVE **FF HAZ MAT 35.5-S-24**
 REFERENCE **J&B 5TH pg. 1386-1387** EVALUATOR INSTRUCTIONS The candidate shall be provided with the appropriate equipment to don a Level C chemical-protective clothing ensemble.
 JPR NFPA 470 **9.2.1** OUTCOME The candidate shall be able to correctly don a Level C chemical-protective clothing ensemble.

NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Conduct a pre-entry briefing, medical monitoring, and equipment inspection. Ensure that the selected level of protection is appropriate for the mission. While seated, pull on the suit to waist level; pull on the chemical boots over the top of the chemical suit.				
2	*	Don the inner gloves.				
3	*	With assistance, complete donning the suit by placing both arms in the suit and pulling the suit over your shoulders. Instruct the assistant to close the chemical suit by closing the zipper and sealing the splash flap.				
4	*	Don the APR/PAPR face piece. With assistance, pull the hood over your head and the APR/PAPR face piece. Place the helmet on your head. Pull on the outer gloves. Review hand signals and indicate that you are okay.				

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TASK **Doffing a Liquid Splash-Protective (Level C) Ensemble**

SKILL DRILL 35.6.24 CANDIDATE "Correctly doff a Level C chemical-protective clothing ensemble."
OBJECTIVE FF HAZ MAT DIRECTIVE

REFERENCE J&B 5TH pg 1388 EVALUATOR INSTRUCTIONS The candidate shall be provided with the appropriate equipment to doff a Level C chemical-protective clothing ensemble.

JPR NFPA 470 9.2.1 OUTCOME The candidate shall be able to correctly doff a Level C chemical-protective clothing ensemble.

NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	After completing decontamination, proceed to the clean area. As with level B, the assistant opens the chemical splash flap and suit zipper. Remove your hands from the gloves and your arms from the sleeves. Remove the helmet. Instruct the assistant to begin at the head and roll the suit down below waist level. Instruct the assistant to complete rolling down the suit and to take the outer boots and suit away. The assistant helps remove the inner gloves. Remove the APR/PAPR.				
2	*	Go to the rehabilitation area for medical monitoring, rehydration, and personal decontamination shower. After use, ensure that the garment is inspected, maintained, and stored (or disposed of) in accordance with the manufacturer's guidelines and the AHJ's policies and procedures.				

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TASK **Donning and Doffing a Level D Ensemble**

SKILL DRILL OBJECTIVE REFERENCE JPR NFPA 470	35.7.24 FF HAZ MAT 35.7-S-24 J&B 5 TH pg 1389 9.2.1	CANDIDATE DIRECTIVE EVALUATOR INSTRUCTIONS OUTCOME	“Correctly don a Level D chemical-protective clothing ensemble.” The candidate shall be provided with the appropriate equipment to don a Level D chemical-protective clothing ensemble. The candidate shall be able to correctly don a Level D chemical-protective clothing ensemble.
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NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Conduct a pre-entry briefing, medical monitoring, and equipment inspection. Ensure that the selected level of protection is appropriate for the mission. Don the Level D suit. Don boots. Don safety glasses or chemical goggles. Don a hard hat. Don gloves, a face shield, and any other required equipment.				
2	*	Doff all PPE. No chemical contact is expected with Level D, so no particular precautions are needed when doffing this ensemble.				

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TASK **Constructing an Overflow Dam**

SKILL DRILL OBJECTIVE 36.2.24 HAZ MAT 36.2-S-24 REFERENCE J&B 5 TH pg 1405 JPR NFPA 470 9.6.1	CANDIDATE DIRECTIVE "Correctly control a hazardous materials incident using overflow damming." EVALUATOR INSTRUCTIONS The candidate shall demonstrate the construction of an overflow dam as a product control solution. OUTCOME The candidate shall be able to correctly construct an overflow dam as a product control solution based on the specific gravity of the released hazardous material.
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NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Determine the need for and location of an overflow dam. Build a dam with sandbags or other available materials.				
2	*	Install the appropriate number of 3- to 4-inch (7.5- to 10-cm) piping horizontally on top of the dam, and then add more sandbags on top of the dam. Complete the dam installation, ensuring that the piping allows the proper flow of water without allowing the water to overtop the dam.				

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TASK **Constructing an Underflow Dam**

SKILL DRILL OBJECTIVE REFERENCE JPR NFPA 470	36.3.24 FF HAZ MAT 36.3-S-24 J&B 5TH pg 1405 9.6.1	CANDIDATE DIRECTIVE EVALUATOR INSTRUCTIONS OUTCOME	“Correctly control hazardous materials incident using underflow damming.” The candidate shall demonstrate the construction of an underflow dam as a product control solution. The candidate shall be able to correctly construct an underflow dam as a product control solution based on the specific gravity of the released hazardous material.
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NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Determine the need for and location of an underflow dam. Build a dam with sandbags or other available materials.				
2	*	Install two to three lengths of 3- to 4-inch (7.5- to 10-cm) piping at a 20- to 30-degree angle on top of the dam, and then add more sandbags on top of the dam. Complete the dam installation, ensuring that the piping allows the proper flow of water without allowing the lighter-than-water material to overtop the dam and flow downstream.				

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TASK

Constructing a Dike

SKILL DRILL OBJECTIVE

36.4.24
FF HAZ MAT
36.4-S-24

CANDIDATE DIRECTIVE

“Correctly control a hazardous materials incident using a dike.”

REFERENCE

J&B 5TH pg
1406

EVALUATOR INSTRUCTIONS

The candidate shall demonstrate the construction of dike as a product control solution.

JPR NFPA 470

9.6.1

OUTCOME

The candidate shall be able to correctly construct a dike as a product control solution for a released hazardous material.

NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Determine the best location for the dike. If necessary, dig a depression in the ground 6 to 8 inches (15 to 18 cm) deep. Ensure that plastic will not react adversely with the spilled chemical. Use plastic to line the bottom of the depression and allow for sufficient plastic to cover the dike wall.				
2	*	Build a short wall with sandbags or other available materials.				
3	*	Complete the dike installation and ensure that its size will contain the spilled product.				

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TASK **Using Dilution to Manage a Hazardous Materials Incident**

SKILL DRILL OBJECTIVE 36.5.24 FF HAZ MAT 36.5-S-24
 CANDIDATE DIRECTIVE “Correctly control a hazardous materials incident using dilution.”

REFERENCE J&B 5TH pg 1407
 EVALUATOR INSTRUCTIONS The candidate shall demonstrate the use of dilution as a product control solution.

JPR NFPA 470 9.6.1
 OUTCOME The candidate shall be able to correctly utilize dilution methods as a product control solution for a released hazardous material.

NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Determine the viability of a dilution operation. Obtain guidance from a hazardous materials technician, specialist, or other allied professional. Ensure that the water used will not overflow and affect other product-control activities. Add small amounts of water from a distance to dilute the product. Contact the hazardous materials technician, specialist, or other allied professional if additional issues arise.				

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TASK **Constructing a Diversion**

SKILL DRILL OBJECTIVE 36.6.24 FF HAZ MAT 36.6-S-24 REFERENCE J&B 5 TH pg 1408 JPR NFPA 470 9.6.1	CANDIDATE DIRECTIVE "Correctly control a hazardous materials incident using a diversion dam." EVALUATOR INSTRUCTIONS The candidate shall demonstrate the construction of a diversion dam as a product control solution. OUTCOME The candidate shall be able to correctly construct a diversion dam as a product control solution for a released hazardous material.
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NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Determine the best location for the diversion. Use sandbags or other materials to divert the product flow to an area with fewer hazards. Stay clear of the product flow. Monitor the diversion channel to ensure the integrity of the system.				

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TASK **Using Retention to Manage a Hazardous Materials Incident**

SKILL DRILL OBJECTIVE REFERENCE JPR NFPA 470	36.7.24 FF HAZ MAT 36.7-S-24 J&B 5 TH pg 1408 9.6.1	CANDIDATE DIRECTIVE EVALUATOR INSTRUCTIONS OUTCOME	“Correctly control a hazardous materials incident using a retention area. The candidate shall demonstrate the construction of a retention area as a product control solution. The candidate shall be able to correctly construct a retention area as a product control solution for a released hazardous material.
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NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Determine the best location for the retention system. Dig a depression in the ground to serve as a retention area. Use plastic to line the bottom of the depression. Use sandbags or other materials to hold the plastic in place. Stay clear of the product flow. Monitor the retention system to ensure its integrity remains intact.				

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TASK **Using Vapor Dispersion to Manage a Hazardous Materials Incident**

SKILL DRILL 36.8.24 CANDIDATE "Correctly control a product release using vapor dispersion."
 OBJECTIVE FF HAZ MAT DIRECTIVE
 36.8-S-24
 REFERENCE J&B 5TH pg EVALUATOR The candidate shall use vapor dispersion as a product control solution.
 1411 INSTRUCTIONS
 JPR NFPA 470 9.6.1 OUTCOME The candidate shall be able to correctly use vapor dispersion for product control.

NO.	Critical Step	TASK STEPS	FIRST TEST		RETEST	
			PASS	FAIL	PASS	FAIL
1	*	Determine the viability of a dispersion operation. Use the appropriate monitoring instrument to determine the boundaries of a safe work area. Ensure that ignition sources in the area have been removed or controlled.				
2	*	Apply water from a distance to disperse vapors. Monitor the environment until the vapors have been adequately dispersed.				

 EVALUATOR'S SIGNATURE CANDIDATE'S SIGNATURE & CO # DATE

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