



Office of Training  
and Certification

# New Jersey Division of Fire Safety

## BASIC PRACTICAL SKILLS EXAMINATION REPORT

Skill sheet #

**HM  
OPS-11**

Certification title

**Hazardous Materials Operational Level  
Constructing an Underflow Dam**

### Applicant Information

Candidate name

DFS ID #

Course #

### Evaluation

#### Standard:

**NFPA 470 - 2022 Edition:  
9.6.1**

#### Skill Drill 11-3

#### Task

Correctly utilize underflow damming as a product control solution.

#### Conditions and Outcome

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. All participants must wear appropriate PPE and be given the materials to perform the task correctly.

Number	Task Steps	First Test		Retest #1		Retest #2	
		Pass	Fail	Pass	Fail	Pass	Fail
1	The instructor should have a location determine and the supplies ready for the crew to utilize so students are able to construct an underflow dam.						
2	Students acting as a crew are to build a dam with sandbags or other available materials.						
3	Install two to three lengths of 3 to 4 in. (8 to 10-cm) plastic pipes at a 20 to 30-degree angle on top of the dam, and add more sandbags on top of the dam. Complete the dam installation and ensure that the size will allow the proper flow of water underneath the lighter-than-water liquid.						
Final Test Result for Entire Task							

Evaluator signature & comments, Test #1		Evaluator signature & comments, Retest #1		Evaluator signature & comments, Retest #2	
Evaluator signature	Date	Evaluator signature	Date	Evaluator signature	Date
Candidate signature & acknowledgement, Test #1		Candidate signature & acknowledgement, Retest #1		Candidate signature & acknowledgement, Retest #2	
By my signature below I acknowledge I have read and understood the evaluation results and evaluator comments		By my signature below I acknowledge I have read and understood the evaluation results and evaluator comments		By my signature below I acknowledge I have read and understood the evaluation results and evaluator comments	
Candidate signature	Date	Candidate signature	Date	Candidate signature	Date

Form DFS-SS-1 10/12

Updated and approved by NJ SME Committee 11/28/23