

Planning Initial Actions for Ignitable Liquid and Gas Fires

Activity: Topic 5-1 (Related to Topics 2-3, 2-4, 3-3, 3-4, 4-3, and 4-4)

Format: Small group (6 groups maximum)

Time Frame: 2 hours (15-20 minutes for development / 1 hours 45 minutes for presentations)

Description

This exercise gives students an opportunity to plan initial actions for an ignitable liquid or gas fire.

Materials

- Sample scenario
- Blank scenario template
- Initial action worksheet
- *Emergency Response Guidebook* (NAERG)
- Pens
- Dry erase board or easel chart
- Markers

Instructions

Working in groups, students will:

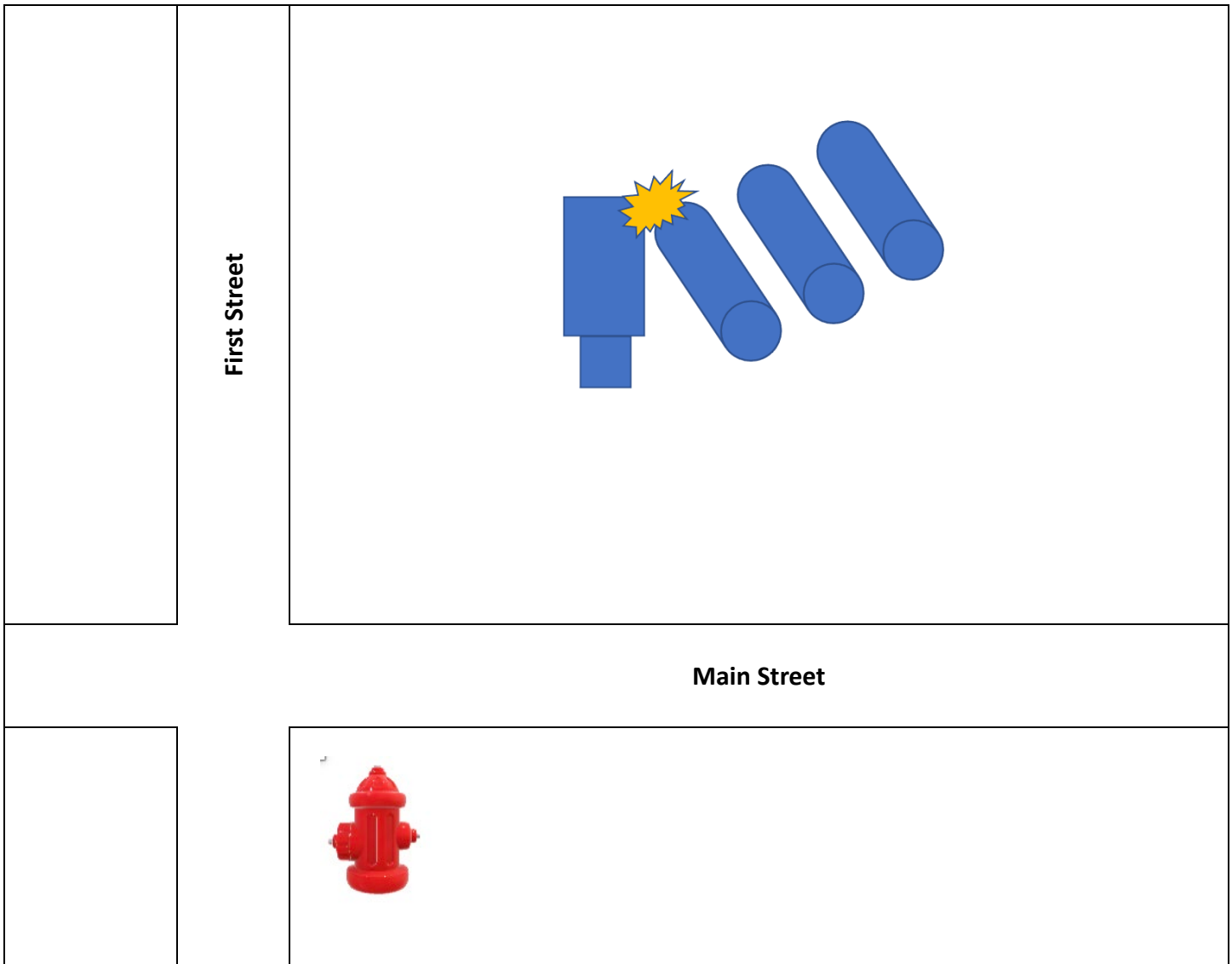
1. Plan initial actions for their given scenario
2. Present their action plan to the class
3. Participate in discussions around selected strategies and tactics

Instructor Notes

- One scenario is provided with the course plan. You are responsible for building out the other five.
- Include the following variations:
 - Liquid transported by rail car, road trailer, or cargo transport unit
 - Gas transported by rail car, road trailer, or cargo transport unit
 - Liquid fire in a bulk storage facility or vessel
 - Gas fire in a bulk storage facility or vessel (provided)
 - Liquid fire from a leaking pipeline
 - Gas fire from a leaking pipeline
- Give each team a blank Incident Action Worksheet.
- Give groups 15-20 minutes to plan their actions.
- Give each group 15-20 minutes to present their plan (including time for discussion and feedback).

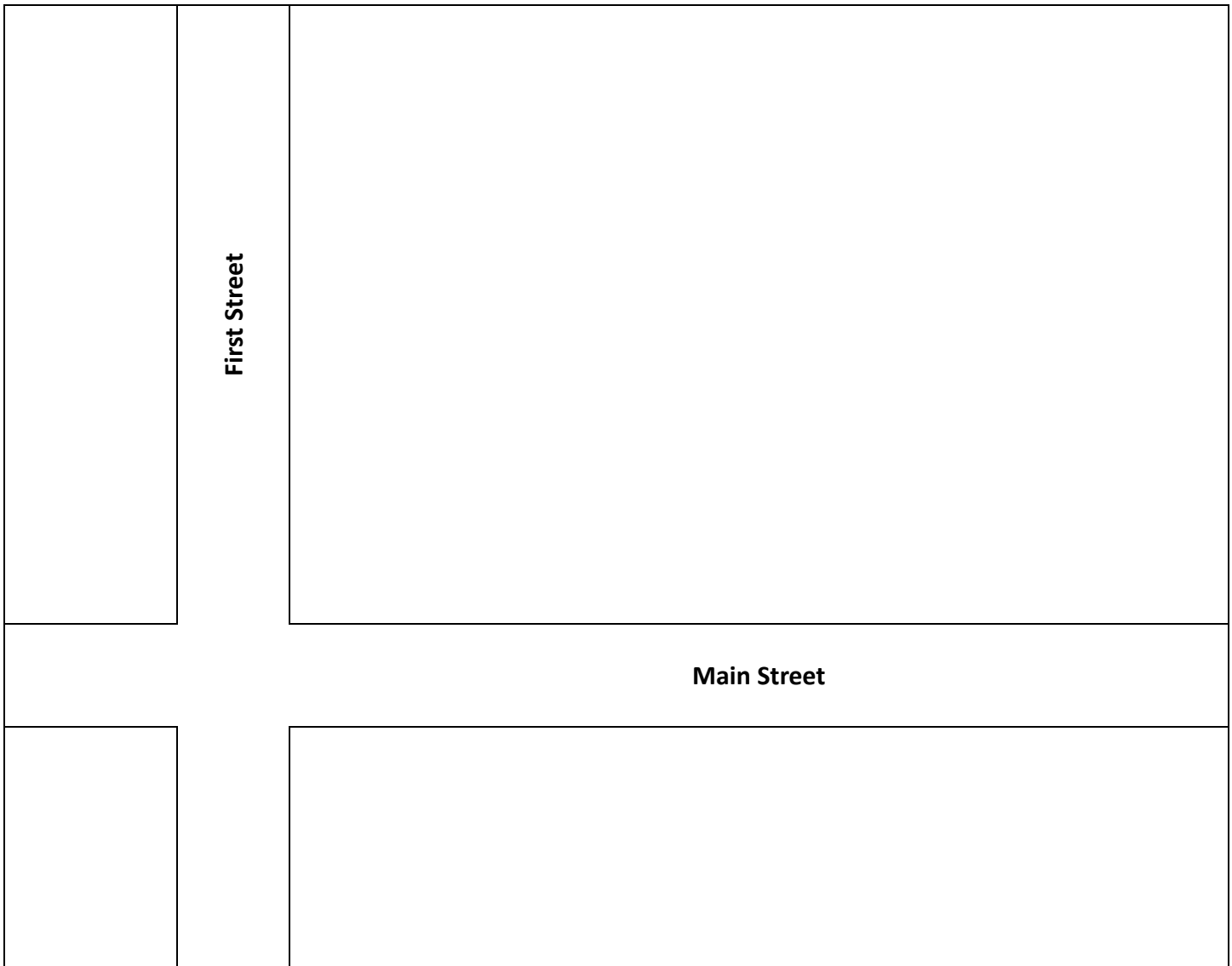
Fire Control 4B: Ignitable Liquids and Gases Technician
 Skills Exercise 1: Planning Initial Actions for Ignitable Liquid and Gas Fires

Scenario: Gas Fire in a Bulk Storage Facility or Vessel		Key	
Resources:		North:	Top of the page
Materials:	ERG	Wind Direction:	
Product and Quantity:	Propane tanks / 3,100 gallons	Wind Speed:	
Fire vs. No Fire		Weather:	
Additional Information:		Time:	



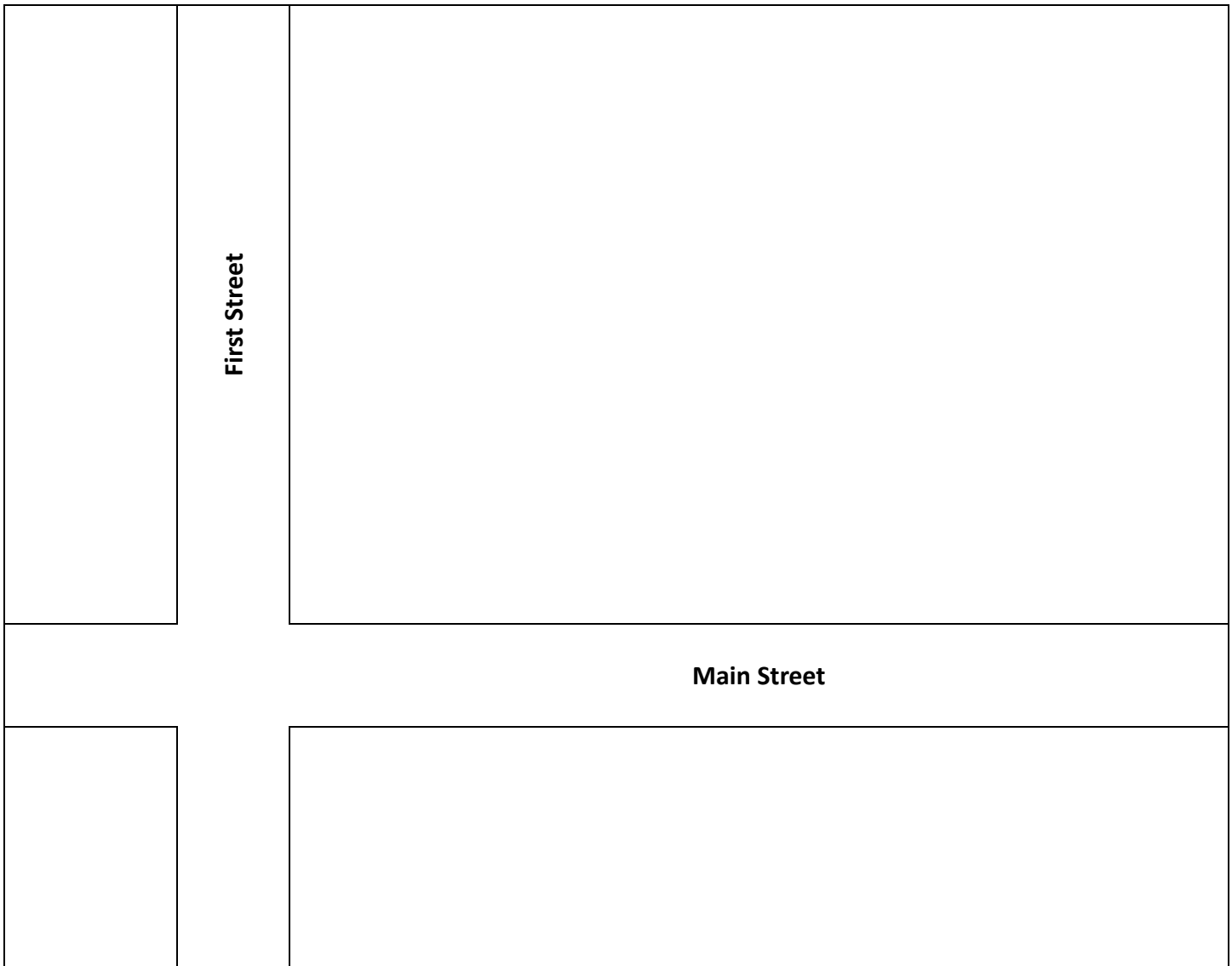
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Resources:		North:	Top of the page
Materials:		Wind Direction:	
Product and Quantity:		Wind Speed:	
Fire vs. No Fire		Weather:	
Additional Information:		Time:	



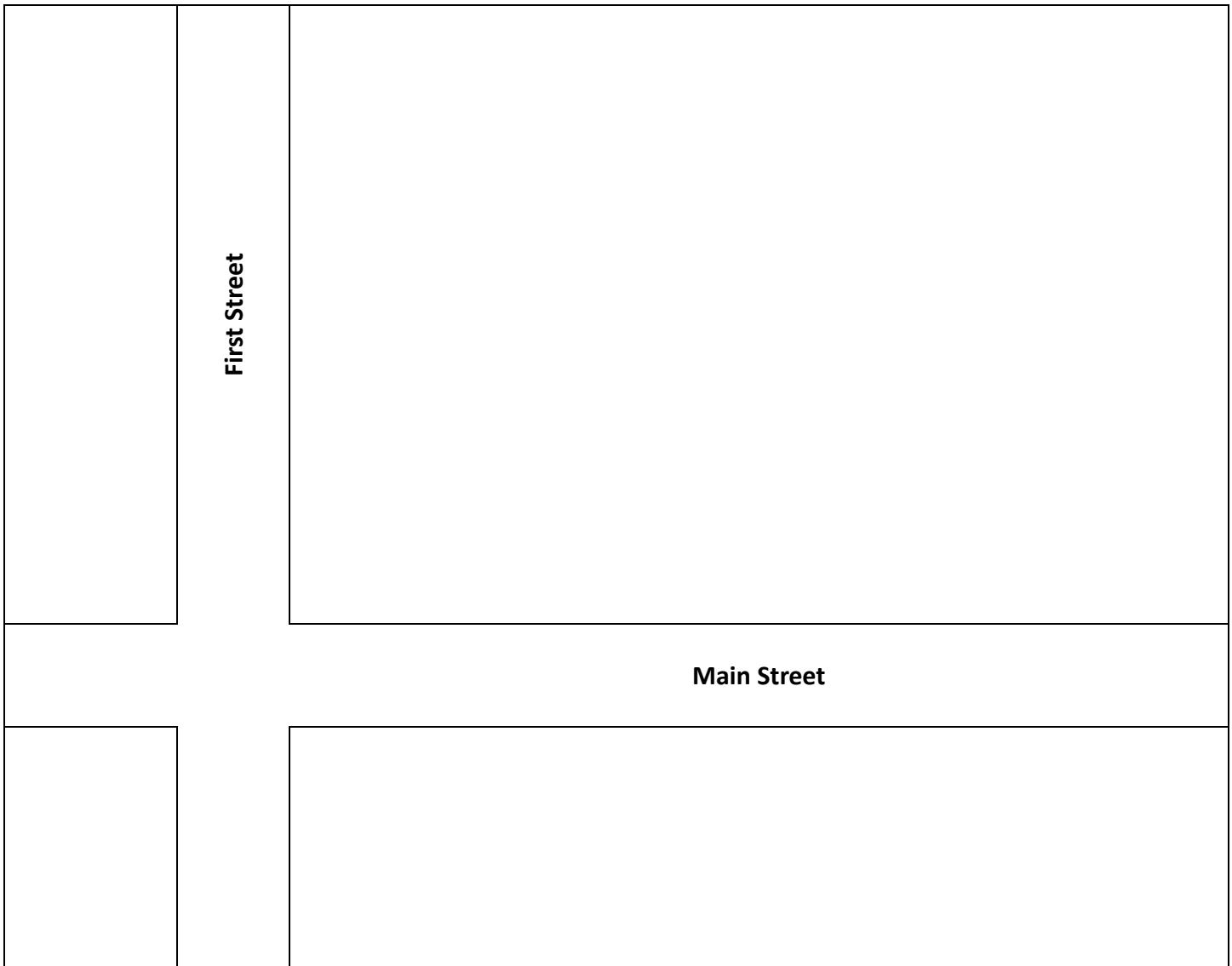
Fire Control 4B: Ignitable Liquids and Gases Technician
 Skills Exercise 1: Planning Initial Actions for Ignitable Liquid and Gas Fires

Scenario: Gas Transported by Rail, Road, or Cargo Unit		Key	
Resources:		North:	Top of the page
Materials:		Wind Direction:	
Product and Quantity:		Wind Speed:	
Fire vs. No Fire		Weather:	
Additional Information:		Time:	



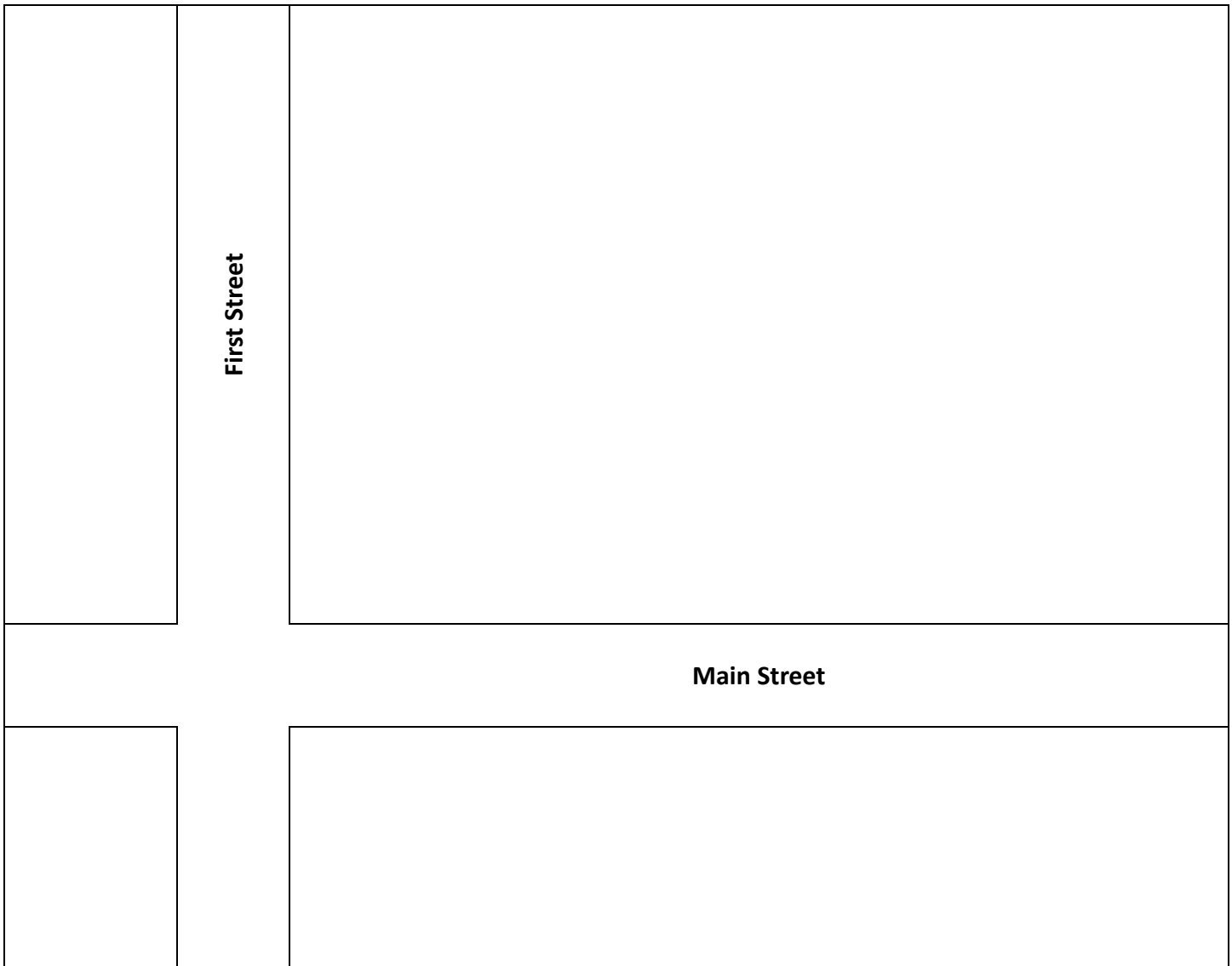
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Resources:		North:	Top of the page
Materials:		Wind Direction:	
Product and Quantity:		Wind Speed:	
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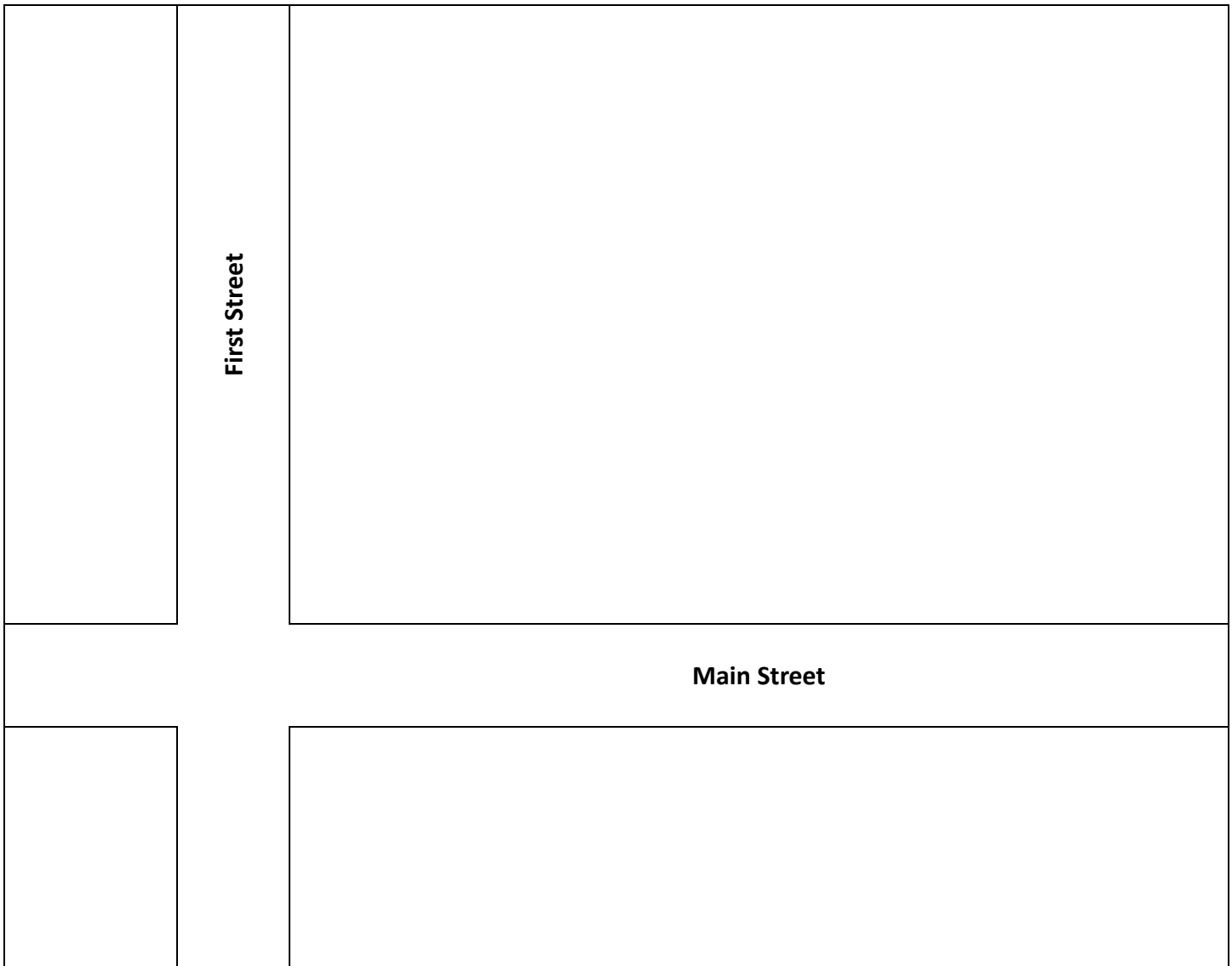
Fire Control 4B: Ignitable Liquids and Gases Technician
 Skills Exercise 1: Planning Initial Actions for Ignitable Liquid and Gas Fires

Scenario: Gas Fire from a Leaking Pipeline		Key	
Resources:		North:	Top of the page
Materials:		Wind Direction:	
Product and Quantity:		Wind Speed:	
Fire vs. No Fire		Weather:	
Additional Information:		Time:	



Fire Control 4B: Ignitable Liquids and Gases Technician
 Skills Exercise 1: Planning Initial Actions for Ignitable Liquid and Gas Fires

Scenario: Liquid Fire from a Leaking Pipeline		Key	
Resources:		North:	Top of the page
Materials:		Wind Direction:	
Product and Quantity:		Wind Speed:	
Fire vs. No Fire		Weather:	
Additional Information:		Time:	



Initial Action Worksheet

Incident Priority

- Life safety
- Incident stabilization
- Property conservation
- Environmental protection

Strategy

- Offensive
- Defensive
- Combination

Tactics**Tasks**

Deploying Master Streams

Activity: Topic 5-2 (Related to Topics 2-3, 2-4, 3-3, 3-4, 4-3, and 4-4)

Format: Small group (maximum 15 students)

Time Frame: 3 hours

Description

This exercise gives students an opportunity to deploy a master stream to attack a simulated ignitable liquid or gas fire in accordance with AHJ policies and procedures.

Materials

- An apparatus with a deck gun
- A ground monitor
- Adequate hose lines
- Adequate nozzles
- Adequate water supply
- PPE
- Communication equipment

Instructions – Deck Gun

Each student will deploy a master stream using an apparatus-mounted deck gun to demonstrate the following skills:

1. Staff deck gun
2. Direct pump operator to charge device supply line
3. Direct stream
 - Up
 - Down
 - Right
 - Left
 - Fog stream
 - Straight stream
4. Signal pump operator to shut down water supply to deck gun
5. Climb down from deck gun

Instructions – Ground Monitor

Working as a team, students will deploy a master stream using a ground monitor to demonstrate the following skills:

1. Place ground monitor (monitor and base) in position with assistance
2. Position ground monitor on a solid, level surface
3. Secure upper assembly to ground monitor base according to manufacturer guidelines
4. Deploy hose lines and attach to ground monitor
5. Secure ground monitor to hose line and ensure all connections are tight
6. Set nozzle to desired elevation and adjust nozzle pattern (if applicable)
7. Direct pump operator to charge ground monitor supply line
8. Set all ground monitor position locks
9. Direct stream*
 - Up
 - Down
 - Right
 - Left
 - Fog stream
 - Straight stream
10. Signal pump operator to shut down water supply to ground monitor

* If possible, have each student complete this portion individually.