

FIRE JEOPARDY

Instructor Guide

Topic: Fire Jeopardy

Level of Instruction:

Time Required: One to Two Hours

Materials:

- Chalk Board or White Board
- Questions as provided
- Game Board (create on chalk/white board)
- Individual to keep score and watch for first team to respond
- Transparencies that you create

References:

- Essentials of Firefighting, 4th Edition, IFSTA

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Preparation

Motivation: Common terminology and firefighting tactics makes scene operations more effective and efficient. Firefighters need to constantly maintain their skills and knowledge levels to provide safe working conditions and provide efficient service to their communities.

Objective (SPO) 1-1:

Given fire related questions, the firefighter will demonstrate knowledge of a variety of basic fire topics through participation in a jeopardy game, so that answers are consistent with the current IFSTA text in use and with jurisdictional protocols.

Overview:

Topics Include:

- Oh Say Can You “C” – answers that begin with the letter C
- Fire Behavior
- Ground Ladders
- Ropes and Knots

- Water Supply
- Hose and Appliances
- Incident Management System
- Hose and Appliances/Fire Streams
- Rescue
- Forcible Entry
- Wildland Fires
- Salvage and Overhaul

FIRE Jeopardy

SPO 1-1 Demonstrate a knowledge of basic fire materials

EO 1-1 Know and follow the rules of the game.

EO 1-2 Answer questions on various aspects of firefighting.

Instructional Guide

NOTE: This drill is intended to be conducted in a similar manner to the Jeopardy game show. Divide participants into teams of 4 to 5 members. The instructor will pick the topics for the first and second rounds. Choose areas in which participants are proficient for the first round, and chose more difficult topics for the second round in which scores are doubled. The instructor (host) will stop reading the question as soon as a team raises their hand(s). Impose a time limit of 30 seconds for providing the answer.

I. Playing the Game (1-1)

a. Set up the game.

1. Follow outlay for Game Board #1.
 - Draw on chalk or white board.
 - Create a transparency.
2. Identify a timekeeper, a score keeper, and a watcher (May combine jobs as needed.)
3. Print the topic questions and answers on separate pages.
4. Choose five of the topics and enter the topics in the top spaces of the game board.

b. Establish rules.

1. Decide on which team gets the first choice.
2. Each team should have a captain to chose a topic, a question point value, and who will give final answers.
3. The beginning team captain chooses a topic and question point value.

4. The host begins the answer. Answers should be given in the form of “The answer is ...”
5. The team captain will give the answer after receiving input from teammates
6. Answers must be given in the form of a question.
7. If the team gets the question right, that team captain chooses the next topic and question point value. If the team responds with a wrong answer, the host continues with the answer until one of the other team’s member raises their hand(s) to answer the question.
8. After a team answers a question correctly, the instructor (host) will erase the point value off the chalk or white board. If using a transparency, place an “x” through the box.
9. The team that gets the question correct chooses the next question.
10. The game continues until the board is clear.
11. Game board #2 is set up to play double jeopardy.
12. The winner is the team that gets the most points.
13. The instructor (host) will have the decision if a variation of the response is valid.

II. Questions (1-2)

A. TOPIC: OH SAY CAN YOU “C”

1. The answer is: Transfer of heat through direct contact.
The question is: What is conduction?
2. The answer is: Created from a salvage cover placed on the floor to hold small amounts of water.
The question is: What is a catchall.
3. The answer is: The pathway of responsibility from the highest level of the department to the lowest.
The question is: What is chain of command?
4. The answer is: A self-sustaining chemical reaction yielding energy or products that cause further reactions of the same kind.
The question is: What is combustion.
5. The answer is: The most common of the hazardous substances contained in smoke that is a product of combustion.

The question is: What is the carbon monoxide.

B. TOPIC: FIRE BEHAVIOR

1. The answer is: Oxygen, fuel, heat, and a self-sustained chemical reaction.

The question is: What are the components of the fire tetrahedron?

2. The answer is: An explosive ignition that can occur when air is allowed to mix with hot, unburned fire gases.

The question is: What is backdraft?

3. The answer is: The tendency of gases to form into layers according to temperature.

The question is: What is thermal layering? (also accept heat stratification or thermal balance)

4. The answer is: Extinguishment of fire through cooling with water.

The question is: What is temperature reduction?

5. The answer is: The classification of fires involving energized electrical equipment.

The answer is: What is a Class C fire?

C. TOPIC: GROUND LADDERS

1. The answer is: Devices attached to the inside of the beams on fly sections used to hold the fly section in place after it has been extended.

The question is: What are the pawls? (also accept dogs or ladder locks)

2. The answer is: Single ladders equipped with folding hooks on one end.

The question is: What is a roof ladder?

3. The answer is: The desired angle of inclination that the ladder should be placed for climbing.

The question is: What is 75 degrees?

4. The answer is: Place the tip of the ladder just below the windowsill.

The question is: Where should a ladder be placed to perform a rescue from a window opening?

5. The answer is: Eight to ten feet.

The question is: What is the height of a residential story?

D. TOPIC: ROPES AND KNOTS

1. The answer is: Used to keep a record of each use and the inspection/maintenance records.

The question is: What is a rope logbook?

2. The answer is: Used to join two ropes of unequal diameters.

The question is: What is a becket bend? (also accept sheet bend)

3. The answer is: Used by firefighters on the ground to prevent equipment and other tied objects from coming in contact with the structure or other objects.

The question is: What is a tag line.

4. The answer is: Used only for supporting people.

The question is: What is life safety rope?

5. The answer is: The type of rope with a braided covering over the core of load-bearing strands.

The question is: What is kernmantle rope?

E. TOPIC: WATER SUPPLY

1. The answer is: A system that uses a primary water source that sits at a high elevation such as an elevated storage tank.

The question is: What is a gravity system?

2. The answer is: The type of water main valve that visually shows whether the gate or valve seat is open or closed.

The question is: What is an indicating valve?

3. The answer is: The type of hydrant used in climates where freezing weather is expected and water is held below the frost line.

The question is: What is a dry barrel hydrant?

4. The answer is: The process of raising water from a static source to supply a pumper.

The question is: What is drafting?

5. The answer is: Used as a filter when drafting from a natural source.

The question is: What is a strainer?

F. TOPIC: HOSE & APPLIANCES

1. The answer is: Referred to as sexless couplings and are connected with one-third of a turn.

The question is: What is a Storz-type coupling?

2. The answer is: A feature on screw thread couplings where the beginning of the thread is cut to provide a positive connection.

The question is: What is the Higbee cut?

3. The answer is: The appliance that has two or three female connections coming into one male discharge exiting the connection.

The question is: What is a Siamese?

4. The answer is: Used to stop the flow of water to allow replacement of a burst section of hose.

The question is: What is a hose clamp?

5. The answer is: The type of load that is easiest to load for large diameter hose and allows the folds to lie flat rather than on their side.

The question is: What is the flat load?

G. TOPIC: INCIDENT MANAGEMENT SYSTEM

1. The answer is: The person in overall command and responsible for all activities.

The question is: What is the incident commander?

2. The answer is: Answers directly to the incident commander and has the authority to shut down all operations when conditions merit.

The question is: What is the safety officer?

3. The answer is: Responsible for providing equipment, materials, and services needed to support the incident.

The question is: What is logistics?

4. The answer is: The number of personnel one person can manage.

The question is: What is span of control?

5. The answer is: The type of command used when the incident is multi-jurisdictional and there may be more than one incident commander.

The question is: What is unified command?

H. TOPIC: HOSE AND APPLIANCES/FIRE STREAMS

1. The answer is: When hose is laid from the water source to the fire.

The question is: What is a forward lay?

2. The answer is: Occurs when the flow of water in a hose line is stopped suddenly resulting in a water surge.

The question is: What is a water hammer?

3. The answer is: The type of stream resulting from the use of a smoothbore nozzle.

The question is: What is a solid stream?

4. The answer is: The most common type of foam proportioner that can be connected at any point in the hose lay.

The question is: What is an in-line foam eductor.

5. The answer is: Used to achieve maximum water surface for heat absorption and is composed of very fine water droplets.

The question is: What is a fog stream?

I. TOPIC: RESCUE

1. The answer is: A rapid, thorough search done to locate victims as soon as possible.

The question is: What is a primary search?

2. The answer is: Immediately activate the PASS device.

The question is: What should a firefighter do when they become trapped or injured.

3. The answer is: Providing additional support to key places between a vehicle and the ground to prevent further movement.

The question is: What is stabilization (stabilizing the vehicle)?

4. The answer is: Using a spring-loaded center punch or striking with a sharp point at the lower corner.

The question is: How do you remove tempered glass from side and rear windows?

5. The answer is: The pattern of collapse when outer walls remain standing and the floors or roof fail in the middle leaving voids on both sides of the collapse.

The question is: What is a V-shaped collapse?

J. TOPIC: FORCIBLE ENTRY

1. The answer is: Used with a halligan type tool, the device useful in pulling all types of lock cylinders.

The question is: What is a K-tool?

2. The answer is: Process used to force open a sectional overhead door.

The question is: What is pry upward from the bottom of the door?

3. The answer is: A manual tool that takes two to four firefighters to breach a brick or concrete wall.

The question is: What is a battering ram?

4. The answer is: Get a forcible entry tool into the space between the door and the doorjamb, open the space and allow the lock bolt to slip from its keeper.

The question is: How do you open a swinging door?

5. The answer is: Use wire cutters and cut close to the posts.

The question is: How do you gain entry through a wire fence.

K. TOPIC: WILDLAND FIRES

1. The answer is: The area where the fire started.

The question is: What is the origin?

2. The answer is: The part of the fire that spreads most rapidly and does the most damage.

The question is: What is the head?

3. The answer is: Fuels that included roots, peat, and other materials that lie under the ground surface.

The question is: What are subsurface fuels?

4. The answer is: The attack method where flames at or close to the edge are fought.

The question is: What is a direct attack?

5. The answer is: The method of constructing a line away from the fire by removing unburned fuel.

The question is: What is an indirect attack?

L. SALVAGE AND OVERHAUL:

1. The answer is: Searching for and extinguishing hidden fires.

The question is: What is overhaul?

2. The answer is: Used to drain runoff from the ceiling above out through windows or doors.

The question is: What is a water chute?

3. The answer is: The tool most commonly used to open ceilings to check on fire extension.

The question is: What is a pike pole?

4. The answer is: In the area of actual fire involvement.

The question is: Where does overhaul begin?

5. The answer is: By looking for discolored walls, feeling for heat, and listening for popping sounds.

The question is: How does a firefighter detect hidden fires using his/her senses?

Summary

Review:

Topics Include:

- Oh Say Can You “C” – answers that begin with the letter C
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- Incident Management System
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- Rescue
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Remotivation:

Common terminology and firefighting tactics makes scene operations more effective and efficient. Firefighters need to constantly maintain their skills and knowledge levels to provide safe working conditions and provide efficient service to their communities.

GAME 1

OH SAY CAN YOU “ C “	GROUND LADDERS	ROPES AND KNOTS	WATER SUPPLY	IMS
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400

500	500	500	500	500
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GAME 2

FIRE BEHAVIOR	HOSE & APPLIANCES	RESCUE	FORCIBLE ENTRY	SALVAGE & OVERHAUL
200	200	200	200	200
400	400	400	400	400
600	600	600	600	600
800	800	800	800	800
1000	1000	1000	1000	1000