

Fire Engineering

Company Training Drill

NFPA Objectives (JPR's)	Job Levels	Critical Safety Points
<ul style="list-style-type: none"> NFPA 1001, 1021, 1521 	<ul style="list-style-type: none"> All suppression personnel 	<ul style="list-style-type: none"> Fire conditions and growth profiles, anticipating hostile events

Fire Behavior Review Quiz

Using local definitions and reference sources, check your knowledge of basic fire behavior terms and principles. Your ability to size-up and assess incident conditions that may affect your survival depend on you knowing this information!

- Convection is:
 - transfer of heat through space by infrared rays.
 - transfer of heat through a solid medium.
 - not considered a method of heat transfer.
 - transfer of heat through liquids or gases by circulating currents.
- The phase of fire characterized by temperature decline and diminishing fire is called:
 - ignition.
 - growth.
 - fully developed.
 - decay.
- Which stage of fire releases the maximum amount of heat for the available fuel and produces large volumes of fire gases?
 - Ignition
 - Fully developed
 - Growth
 - Rapid oxidation
- The principle which most closely describes how water extinguishes fire is:
 - removal of fuel.
 - reduction of temperature.
 - exclusion of oxygen.
 - inhibition of chain reaction.
- _____ is the transition between the growth and fully developed stages of fire.
 - Flashover
 - Backdraft
 - Flash point
 - Ignition temperature
- Fire can be extinguished by:
 - reducing heat, removing oxygen, removing fuel, or stopping the chemical chain reaction.
 - radiation, conduction, or convection.
 - reducing heat, increasing oxygen, or removing fuel.
 - ordinary combustibles, flammable liquids, electrical equipment, and combustible metals.
- A condition that could be a factor leading to a backdraft situation is:
 - natural ventilation.
 - lack of fire stops.
 - confinement of products of combustion.
 - rapid extinguishment of products of combustion.

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Drill Assigned to:	Local Drill Applications	Date of Drill:
SOG #:	Reading Assignment:	Practical Assignment:

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8. The fire tetrahedron includes all the elements of the fire triangle plus:
 - A. radiation energy.
 - B. chemical reaction.
 - C. carbon dioxide.
 - D. carbon monoxide.

9. What may the color of smoke indicate to the firefighters and officers?
 - A. type of fuel burning
 - B. amount of fuel burning
 - C. progress of fire attack crews
 - D. all of the above

10. In your own words, describe the growth stages of a fire from the point of ignition.

1



What phase of fire is present in this photo?

2



What are these smoke conditions telling you?

3



What methods of heat transfer are evident here?

1. D 2. D 3. B 4. B 5. A 6. A 7. C 8. B 9. D 10. (your own words) Photo 1: Growth Photo 2: Flashover is imminent Photo 3: Conduction, convection, direct flame contact and radiation

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