

## **TCFP FF1/ FF2 (Latest 2023/ 2024) Test Review | Complete with Questions and Verified Answers| 100% Correct**

**Q:** What happens if a vapor has a density value LESS than 1?

**Answer:**

The vapor is lighter than air and will rise.

(Ex. Hydrogen Gas)

**Q:** What happens if the vapor has a density value EQUAL to 1?

**Answer:**

The vapor is the same weight as air and would mix with the air easily.

(Ex. Carbon Monoxide)

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**Q:** Why is it helpful for firefighters to have a good understanding of a substance's vapor density?

**Answer:**

They may be able to predict the spread or migration of the vapors and possibly remove any ignition sources that may be in the vapor's path.

**Q:** The ratio of the density of a liquid or solid, as compared to the density of an equal volume of water, with water having an assigned value of 1 is called?

**Answer:**

Specific Gravity

**Q:** What happens when a liquid or solid has a Specific Gravity higher than 1?

**Answer:**

The liquid or solid is heavier than the water and will sink.

(Ex. Carbon Disulfide)

**Q:** What happens when a liquid or solid has a Specific Gravity lower than 1?

**Answer:**

The liquid or solid is lighter than the water and will float.

(Ex. Gasoline, Kerosene, and Wood)

**Q:** What is the danger of using water on a flammable liquid with a low specific gravity?

**Answer:**

The water may actually spread the liquid and the fire rather than putting the fire out.

**Q:** The degree of rapidity with which a substance evaporates to a gaseous state is called?

**Answer:**

Volatility

**Q:** The lowest temperature at which a substance begins to release ignitable vapors sufficiently fast enough to "flash" when exposed to an outside ignition source but DOES NOT CONTINUE TO BURN is called?

**Answer:**

The Flash Point

**Q:** True or False: Anything that can burn has a flash point.

**Answer:**

True

**Q:** The flash point of a substance we usually call "flammable," such as gasoline, is much \_\_\_\_\_ than the flash point of a substance we wouldn't call flammable, such as steel.

**Answer:**

Lower

**Q:** What are the 3 steps taken to determine the flash point of a substance?

**Answer:**

Step 1: Ensure that the pressure and oxygen content of the atmosphere are constant and that the substance being tested is pure.

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Step 2: Beginning at a very cold temperature, the substance is heated very slowly and begins to produce vapors.

Step 3: The Vapors are given an external ignition source (a test flame, for example) and the temperature at which these vapors flash or burn is considered the flash point.

**Q:** Flash Point determines the \_\_\_\_\_ of all liquids and solids.

**Answer:**

Flammability

**Q:** The LOWEST temperature at which a substance produces ignitable vapors sufficiently fast enough to "flash" when exposed to an outside ignition source and then CONTINUES TO BURN is called \_\_\_\_\_.

**Answer:**

The Fire Point

**Q:** The process of initiating self-sustained combustion

**Answer:**

Ignition

**Q:** Combustion is a \_\_\_\_\_ reaction.

**Answer:**

Chemical

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**Q:** What are the two ways a substance can reach its ignition temperature?

**Answer:**

- (1) Piloted Ignition
- (2) Auto-Ignition

**Q:** The introduction of an EXTERNAL ignition source like a spark, match or open flame is called?

**Answer:**

Piloted Ignition