
Firefighting Principles and Practices; 2nd Edition Study Guide (219 Questions with COMPLETE SOLUTION)

The three most important chemical elements particular to firefighting are Correct Answer: Carbon, Hydrogen, Oxygen

Common materials that burn all contain the chemical element of Correct Answer: Carbon (Paper, wood, cloth, plastic, flammable liquids)

When oxygen combines with a combustible material (fuel) and heat is introduced, the combination creates Correct Answer: Combustion

Combustible materials contain energy of Correct Answer: Potential

Heat energy always moves from Correct Answer: Warm to cool/Hot to cold

Heat energy is measured in Correct Answer: BTU's

The reaction of heat being absorbed is Correct Answer: Endothermic Reaction

The reaction of heat being released is Correct Answer: Exothermic Reaction

A measurement of the intensity of heat at a given moment and location is called Correct Answer: Temperature

A material that has its electrons reduced and becomes oxidized by an oxidizing agent (usually oxygen) is and aka Correct Answer: Fuel aka Reducing agent

Intermediate combustion products from flaming combustion are composed of free ions and or molecular fragments called Correct Answer: Free Radicals

Free Radicals fulfill the _____ side of the fire tetrahedron Correct Answer: Chemical chain reaction

A substance that speeds or retards combustion without joining in it is called Correct Answer: Catalyst

Plastics burn the way they do because they contain large amounts of Correct Answer: Hydrogen and Carbon

Petroleum products when burning produce thick black smoke because they contain Correct Answer: High amount of carbon

Water can only absorb _____ energy Correct Answer: Thermal/Heat

Preventing flashover in a specific location can be accomplished by Correct Answer: Cooling the ceiling area

Thick black smoke exiting through an opening followed by a sudden burst of flame is termed Correct Answer: Vent Point Ignition

Firefighting Principles And Practices Study Guide

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