

Combustion Analysis and Fuel Efficiency

Training Manual

Item: CAFE

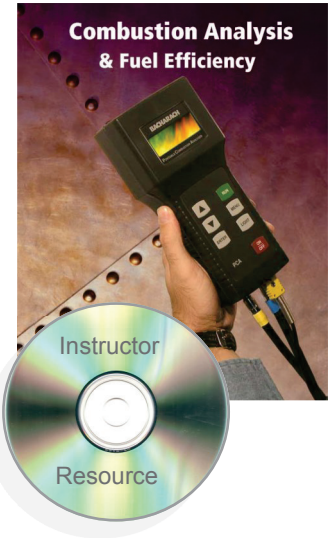
ISBN: 1-930044-25-9

Copyright: 2007 | Retail: \$44.95

This 132 page training manual covers: carbon dioxide formation and release, carbon monoxide generation, thermal heat transfer, and flame temperature.

The manual includes steps and procedures to increase efficiency and reduce emissions. Readers should expect to increase their knowledge of the combustion process and combustion control. Topics such as the dynamics of carbon dioxide production, the release of heat, and the oxygen relationship are discussed.

The spiral binding will allow students to tear out worksheets for grading by the instructor.



This program is designed to provide a full understanding of the combustion process, combustion test procedures and the adjustments required to maximize fuel efficiency.

Certification

To aid those in demonstrating their knowledge of the materials there are two certifications offered: Employment Ready and Professional Level certifications. These 50 question exams cover building pressure general knowledge, building pressure measurements, static pressure, pressure imbalances and combustion appliance zone testing.

\$25.00 Test Fee (Employment Ready)

Fuel Oil Combustion with 50 % excess air or 7.4% oxygen in the flue gas

1 Pound of fuel oil	Burns to	Water (1.18 pounds of water)
+		+
188 cubic feet of air (14.38 lbs) Air 20.9% Oxygen 79.1% Nitrogen	COMBUSTION O ₂ H ₂ Fuel Ignition	56.1% by volume Nitrogen
+		+
94 cubic feet of Excess air (50% excess air)	Burns to	10.2% by volume Carbon dioxide
		+
		33.8 % by volume 94 cubic feet of excess air

CAPITOL
Supplies, INC.

Technical
Training
Programs

Powered by



ESCO institute

800-451-8353