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Combustion Safety

Day 1 AM:

Basic Operations and Expectations

(30 mins)

- Restrooms, emergency exits, phonecalls
- What to expect, and feedback
- Introductions

Combustion Safety Purpose

(45 mins)

- Presentation – “Combustion Safety Day 1” (slides 3-19)

<break –10 mins>

Combustion Safety Theory

(1 hour)

- Presentation – “Combustion Safety Day 1” (slides 20-30)

<break –10 mins>

Combustion Safety Equipment

(1 hour)

- Presentation – “Combustion Safety Day 1” (slides 31-32)
- Short Lab with simple tasks involving equipment

<LUNCH>

For those that return early – instructor available for equipment runs

(1 hour)



Combustion Safety

Day 1 PM:

Combustion Pressures

(45 mins)

- Presentation – “Combustion Safety Day 1” (slides 34-40)
- Exercises – confirm chimney effect (Stackolator), + → - movement, blocked flue, and + pressure flue

<break –10 mins>

Combustion Safety – Appliance Identification

(45mins)

- Presentation – “Combustion Safety Day 1” (slides 41-55)

<break –10 mins>

Combustion Safety – Simple Tests Review

(45 mins)

- Presentation – “Combustion Safety Day 1” (slides 56-63)

<break –10 mins>

Simple Testing Lab

(45 mins)

- Practice tests on available equipment

Homework – Equipment Identification



Combustion Safety

Day 2 AM:

Review - Homework

(15 mins)

- What type of appliances were at your house? (with photos)

Simple Testing Review

(30 mins)

- Presentation – “Combustion Safety Day 2” (slides 4-11)
- Use homework for discussion

<break – 10 mins>

Advanced Testing – The Combustion Appliance Zone

(1hour)

- Presentation – “Combustion Safety Day 2” (slides 12-20)

<break – 10 mins>

CAZ Depressurization in Action

(1.5 hours)

- Presentation – “Beginning Installer Day 2” (slides 21-22)
- EnergyWright House examples
- Video of the process with a worksheet and discussion

<LUNCH>

For those that return early – instructor available for equipment practice



Combustion Safety

Day 2 PM:

Advanced Testing Lab

- Practice

(2 hours)

Testing Review

- Review key points and answer questions

(1 hour)

Written Exam

- Testing theory, appliance identification, etc.

(1 hour)



Combustion Safety
[3-day Course ONLY]
Day 3 AM:

Exam Review

(1 hour)

- Presentation based upon exam results

Field Testing Lab #1

(2.5 hours)

- Groups lead class through
- Appliance and CAZ identification
- Simple testing under natural conditions
- CAZ Worst-case Setup
- Advanced testing under worst case
- Results interpretation using BPI Standard

<LUNCH>

For those that return early – instructor available for blower door practice



Combustion Safety

Day 3 PM:

Field Testing Lab #2

(2.5 hours)

- Groups lead class through
- Appliance and CAZ identification
- Simple testing under natural conditions
- CAZ Worst-case Setup
- Advanced testing under worst case
- Results interpretation using BPI Standard

Class Wrap-up/Review

(30 mins)

Retest - Review

(1 hour)