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# Combustion Safety Syllabus



Instructor: {Instructor Name}

## Instructor's Contact Information:

Phone: [phone number]  
Email: [email address]

## Course Information:

[meeting day, time]  
[meeting location]

## Course Description

Combustion Safety expands upon previous training in basic and advanced testing of combustion appliances. Students are presented with hypothetical and real-world examples to practice and hone their skills.

## Course Objectives

By the end of this course, students will be able to:

- 1) Identify different types of combustion appliances
- 2) Identify appropriate testing locations on each type of equipment
- 3) Properly conduct basic combustion safety tests
- 4) Identify potential combustion safety problems
- 5) Properly conduct advanced (Combustion Appliance Zone) depressurization tests

## Prerequisites

Previous training in basic or advanced combustion safety testing or theory. (BPI, Weatherization, etc.)

## Required Texts

Combustion Safety Course Handbook

## Expectations

1. Exhibit professional conduct, including complying with OSHA safety standards.
2. Attend all classroom, lab, and field sessions.
3. Complete and submit all required assignments/exercises according to course deadlines.
4. Participate in classroom discussions.
5. Complete/participate in all field and laboratory projects.
6. Use individual knowledge and skills to assist with group activities.
7. Demonstrate ability to properly perform specific specialized diagnostic tests.

## Assignments

- Primary assessments will be conducted by observation throughout classroom, laboratory, and field sessions. This includes productive participation in question and answer sessions, and discussions during each lesson.
- Final evaluation consists of skill demonstrations and completion of Course Handbook exercises.

- See attached Task Rubrics at end of Syllabus for Skill Demonstration Task assessments.

## SFCC Policies/Procedures

[see SFCC Student Handbook and JACK for additional SFCC policies: [www.sfcc.edu](http://www.sfcc.edu)]

**Attendance:** Students are required to attend each class in order to pass each course offering for certification. Notify your instructor within 24 hours of any unforeseen absence. Courses are not run on a regular basis and therefore, make-up scheduling may not be possible.

**Academic Honesty:** Students may not gain, or attempt to gain, academic advantage by misrepresenting their work or by interfering with the completion, submission, or evaluation of work.[see SFCC policies on plagiarism in Student Handbook]

**Electronic Devices:** All electronic devices must be set to off at the beginning of each class session. Student cell phone use policy is “emergencies only” during instruction.

### Grading:

Students must achieve the follow to receive a passing grade/certification  
 70% or above is required on Skill Demonstration Assessments (indicated as 2 or higher on Task Rubrics)  
 100% completion of all Skill Demonstration Tasks is required  
 100% completion of the Course Handbook

**Students with Disabilities:** If you have a disability for which you would be requesting accommodations by SFCC, please contact your instructor upon enrollment.

## Resources

Weatherization Assistance Program Technical Assistance: [www.waptac.org](http://www.waptac.org)

Weatherization TV: [www.wxtvonline.org](http://www.wxtvonline.org)

SFCC Online Course Materials: <https://sfcc.instructure.com>

## Schedule

### Day 1:

|                                                           |                 |
|-----------------------------------------------------------|-----------------|
| Introductions, course expectations                        | 8:00-8:30am     |
| Purpose of Combustion Safety                              | 8:30-9:15am     |
| <break>                                                   | 9:15-9:25am     |
| Combustion Safety Theory                                  | 9:25-10:25am    |
| <break>                                                   | 10:25-10:35am   |
| Combustion Safety Equipment                               | 10:35-11:35am   |
| <LUNCH> Early Return - instructor available for questions | 11:35am-12:35pm |
| Combustion Pressures                                      | 12:35-1:20pm    |
| <break>                                                   | 1:20-1:30pm     |

|                                              |             |
|----------------------------------------------|-------------|
| Combustion Safety - Appliance Identification | 1:30-2:15pm |
| <break>                                      | 2:15-2:25pm |
| Combustion Safety – Simple Tests Review      | 2:25-3:10pm |
| <break>                                      | 3:10-3:20pm |
| Simple Testing Lab                           | 3:20-4:05pm |

After Class –15-30 minutes for One-on-One sessions as needed

### *Day 2:*

|                                                                |               |
|----------------------------------------------------------------|---------------|
| Day 1 and Homework Review                                      | 8:00-8:15am   |
| Simple Testing Review                                          | 8:15-8:45am   |
| <break>                                                        | 8:45-8:50am   |
| Advanced Testing – The Combustion Appliance Zone               | 8:50-9:50am   |
| <break>                                                        | 9:50-9:55am   |
| CAZ Depressurization in Action                                 | 9:55-11:25am  |
| <break>                                                        | 11:25-11:35am |
| <LUNCH> Early Return - instructor available for equipment runs | 11:35-12:35pm |
| Advanced Testing Lab                                           | 12:35-2:35pm  |
| <break>                                                        | 2:35-2:50pm   |
| Testing Review                                                 | 2:50-3:30pm   |
| <break>                                                        | 3:30-3:40pm   |
| Written Exam                                                   | 3:40-4:40pm   |

After Class –15-30 minutes for One-on-One sessions as needed

### *(Optional) Day 3:*

|                                                                |               |
|----------------------------------------------------------------|---------------|
| Exam Review                                                    | 8:00-9:00am   |
| <break>                                                        | 9:00-9:10am   |
| Field Testing Lab #1                                           | 9:10-11:45am  |
| <LUNCH> Early Return - instructor available for equipment runs | 11:45-12:45pm |
| Field Testing Lab #2                                           | 12:45-3:15pm  |
| <break>                                                        | 3:15-3:25pm   |
| Retest – Review – Wrap-up                                      | 3:25-5:00pm   |