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Beginning Installer Syllabus



Instructor: {Instructor Name}

Instructor's Contact Information:

Phone: [phone number]

Email: [email address]

Course Information:

[meeting day, time]

[meeting location]

Course Description

Beginning Installer focuses on introducing building science, tools used to weatherize buildings, and proper air-sealing and insulation techniques to those who will be working in construction and energy retrofitting.

Course Objectives

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

- 1) List the common goals of energy retrofits and the role of installations
- 2) Summarize the "Rules of the Game" for basic building science
- 3) Describe the science of Blower Door testing and discuss the pros and cons of testing
- 4) Identify the parts of a Blower Door and understand its set-up
- 5) Describe how insulation works and identify common insulation problems
- 6) Identify other testing tools and their uses
- 7) Recognize the importance of air-sealing, know best practices and how to identify the proper sealing materials for different situations

Prerequisites

None.

Required Texts

Beginning Installer 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]

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

Weatherization TV: www.wxtvonline.org

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

Schedule

Day 1:

Introductions, course expectations	8:00-8:30am
Introduction to Installations	8:30-9:15am
<break>	9:15-9:25am
Basic Building Science – The “Rules of the Game”	9:25-10:25am
<break>	10:25-10:35am
Basic Building Science – Lab	10:35-11:05am
Introduction to Blower Door – What it Does	11:05-11:35am
<LUNCH> Early Return - instructor available for questions	11:35am-12:35pm
Blower Door – Parts and Setup	12:35-1:05pm
Blower Door – Lab <breaks as needed>	1:05-2:35pm
Blower Door – Lab Wrap-up	2:35-3:20pm
<break>	3:20-3:30pm
Insulation 101	3:30-4:15pm

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

Day 2:

Day 1 and Homework Review	8:00-8:15am
Building Science Review	8:15-8:45am
<break>	8:45-8:50am
Tools We Use – Beyond Blower Door	8:50-9:50am
<break>	9:50-9:55am
Tools We Use – Air Sealing Materials	9:55-10:55am
<break>	10:55-11:00am
Tools in the Field exercise – Ductwork (part 1)	11:00am-12:00pm
<LUNCH> Early Return - instructor available for equipment runs	12:00-1:00pm
Tools in the Field exercise – Ductwork (part 2)	1:00-1:30pm
<break>	1:30-1:35pm
Tools in the Field exercise – General Air Sealing	1:35-2:35pm

<break>	2:35-2:40pm
Tools in the Field – Air Sealing wrap-up	2:40-3:00pm
Hands-on Exam – Seal 3 small props <breaks as needed>	3:00-5:00pm

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

(Optional) Day 3:

Insulation – Uses and Tools	8:00-9:00am
<break>	9:00-9:10am
Insulation Lab <breaks as needed>	9:10-11:45am
<LUNCH> Early Return - instructor available for equipment runs	11:45-12:45pm
Insulation Lab Wrap-Up/Clean-Up	12:45-1:30pm
<break>	1:30-1:45pm
Retest – Review	1:45-2:30pm