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## **Beginning Installer**

### **Day 1 AM:**

#### **Basic Operations and Expectations (30 mins)**

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

#### **Introduction to Installations (45 mins)**

- Presentation – “Beginning Installer Day 1” (slides 3-11)

<break –10 mins>

#### **Basic Building Science - The “Rules of the Game” (1 hour)**

- Presentation – “Beginning Installer Day 1” (slides 12-23)

<break –10 mins>

#### **Basic Building Science – Lab (30 mins)**

- Props Required: Grandma’s House, Stackolator (with smoke pencil) and House of Pressure

#### **Introduction to Blower Door – What it does. (30 mins)**

- Presentation – “Beginning Installer Day 1” (slides 26-31)
- \*\*Includes video that requires internet access\*\*

<LUNCH>

**For those that return early – instructor available for equipment runs (1 hour)**



## **Beginning Installer**

### **Day 1 PM:**

#### **Blower Door – Parts and Setup**

**(30 mins)**

- Presentation – “Beginning Installer Day 1” (slides 33-36)
- \*\*Includes videos that requires internet access\*\*

#### **Blower Door Lab**

**(1.5 hours)**

- Split into groups of no more than 4 – must pass each stage
- Frame and Tarp assembly and Fit + hose positions
- Gauge Setup
- Run Tests @ 35, 50 and 65pa

#### **Blower Door Lab Wrap-up**

**(45 mins)**

- Discussions –
- Results @ different pressures....Why are they similar
- Can't Reach 50pa
- “LO”

#### **Insulation 101**

**(45 mins)**

- Presentation – “Beginning Installer Day 1” (slides 41-48)
- Exercises “I’ve been bad”

**Homework** – preparing the testing space



## **Beginning Installer**

### **Day 2 AM:**

#### **Review - Homework**

**(15 mins)**

- What prep did your space require?

#### **Building Science Review**

**(30 mins)**

- Show Grandma's House – stop after each retrofit/problem
- Discussion – What “Rules of the Game” did they miss?

<break – 5 mins>

#### **Tools we use – Beyond Blower Door**

**(1 hour)**

- Presentation – “Beginning Installer Day 2” (slides 6-13)

<break – 5 mins>

#### **Tools we use – Air Sealing Materials**

**(1 hour)**

- Presentation – “Beginning Installer Day 2” (slides 14-24)

<break – 5 mins>

#### **Tools in the Field Exercises - Ductwork (part 1)**

**(1 hour)**

- Split into groups
- Set up blower door
- Run blower door test
- Pressure Pan test and interpret
- Practice Sealing – metal duct, flex connections, elbows, panned joist

<LUNCH>

**For those that return early – instructor available for equipment practice**



## **Beginning Installer**

### **Day 2 PM:**

**Tools in the Field Exercises - Ductwork (part 2)** (30 mins)  
- Practice Sealing – metal duct, flex connections, elbows, panned joist

**Tools in the Field Exercises - General Air Sealing** (1 hour)  
- Identify different props – sealing requirements  
- Split into groups  
- Seal and test each prop (big prop)

**Tools in the Field – Air Sealing Wrap-up** (20 mins)  
- Presentation – “Beginning Installer Day 2” (slides 29-31)

**Hands-on Exam Seal (3) small props** (2 hours)



**Beginning Installer**  
*[3-day Course ONLY]*  
**Day 3 AM:**

**Insulation – Uses and Tools** <break during presentation – 10mins> **(1 hour)**

- Presentation – “Beginning Installer Day 3” (slides 3-15)
- Real World Examples – Options and keys to proper installation

**Insulation Lab** **(2.5 hours)**

- Insulation Wall – batts
- <break – 5 mins>
- Insulation Wall – blown-in (dense-pack machine)
- <break – 5 mins>
- Open Attic – Discussion batts VS. blown (open blow machine)
- <break – 5 mins>

**<LUNCH>**

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



## **Beginning Installer**

### **Day 3 PM:**

#### **Insulation Lab Wrap-up/Clean-up**

- Discussion – pros/cons of each method

**(30 mins)**

#### **Retest - Review**

**(1 hour)**