

# Weatherization Fundamentals 101

**January 4-8, 2016**

Monday, January 4, 1:00 P.M. - Friday, January 8, 12:00 P.M.

Sponsored by the Montana Department of Public Health and Human Services  
Low-Income Weatherization Program and  
The Montana State University Extension Housing Program

This beginning level school, the first of a two part fundamentals series utilizing the DOE Standardized Curriculum, incorporates topics such as Building Science Basics, Construction Basics, Heat Loss Theory & Calculations, Weatherization Measures & Montana Standards, Energy Auditing/CDS Energy Audit Introduction, Air Infiltration, Pressure & Thermal Boundaries, Blower Door Basics, Combustion and Ventilation, Water Heaters, Weatherization Health & Safety, Client Education, Infrared Introduction, and more.

## **Training Location - Bozeman, Montana**

Montana Weatherization Training Center 705 Osterman Dr., Bozeman, MT. From I-90 Bozeman Exit 309 proceed East on Frontage Rd (Highway 10) ½ mile to Osterman Dr. From Bozeman Main St. proceed East until Main turns into Frontage Rd (left lane). Go ½ mile past I-90 underpass to Osterman Dr.

## **Cost and Registration:**

No-charge to sub-grantees and contractors with the Montana Low-Income Weatherization Program.  
\$325/person for non-program participants.

**Pre-registration is required for all attendees! - Please fill out registration form.**

## **Lodging**

Participants are responsible for arranging overnight accommodations. A block of rooms for this training is reserved at the Best Western GranTree Inn, 1325 North 7<sup>th</sup>, Bozeman, MT  
Call 406-587-5261 and ask for the MSU Weatherization room block.

**Book rooms before December 21, 2015**

## **Additional Information**

To request disability accommodation or inform us of special dietary or other need please call Mike Roberty (406) 994-6386. Sponsored by the Montana Department of Public Health and Human Services Low-Income Weatherization Program and Montana State University Extension Service Housing Program.

### **Registration Form**

*Weatherization Fundamentals 101 January 4-8, 2016*

Name(s) \_\_\_\_\_

Agency \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_ Daytime Phone \_\_\_\_\_

Please email [mroberty@montana.edu](mailto:mroberty@montana.edu) (preferred) or call (406) 994-6386 by December 21, 2015 to  
**Mike Roberty, Montana Weatherization Training Center  
705 Osterman Drive, Suites A&C, Bozeman, Montana 59715.**

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MONDAY Jan 4	TUE Jan 5	WED Jan 6	THUR Jan 7	FRI Jan 8
	8:30 AM K-C-U-R Values  Heat Transfer/ Heat Loss Calculations  Montana Weatherization Standards/Standard Work Specifications  Typical Weatherization Measures	8:30 AM  Blower Door Basics  <i>Lab: Demo Blower Door setup and operation</i>  Infiltration /Attic Prep/ Air Sealing  <i>Lab: Demo attic prep and air sealing</i>  Zonal Pressure Diagnostics (ZPD) Lab: ZPD Demo	8:30 AM  Heating and Distribution Systems  Ductwork Basics: Sealing and Testing Lab: Pressure Pan Demo  Water Heaters  <i>Lab: Demo Water Heater</i>  The DG700 Manometer	8:30 AM  Exam Review  Exam  Evaluation
1:00 PM  Introduction to Weatherization  Building Science Basics / House as a System  Terms  Factors Influencing Energy Consumption  Construction Basics/  Home Heat Transfer: Conduction/Convection/ Radiation  Energy Audit: Pressure & Thermal Boundaries	1:00 PM  Basements & Crawlspaces  Attic Inspection, Prep, Insulation, Ventilation , air sealing  Windows & Doors  Savings to Investment Ratio (SIR)  Infrared In Weatherization	1:00 PM  Mobile Home/Stick Built Systems  Combustion Safety  Combustion Appliance Zone (CAZ) Testing Intro Lab: CAZ Testing Demo  Lab: Combustion/ CO Testing Demo  Mechanical Ventilation  Lab: Fan Flow Meter  <i>Furnace Lab: Ducting Demo - Sealing CO Analysis Components Demo</i>	1:00 PM  Health Safety in Weatherization  Worker Safety OSHA/PPE Onsite Hazards Mold-Moisture Asbestos Hanta Virus VOSs Radon Lead CO  <i>Lab: PPE Tyveks</i>  <i>Lab: Shroud /Containment Demo</i>  Respirator Basics  <i>Lab: Respirator Fit Testing</i>  Client Education	