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The mission of the Weatherization Assistance Program is to improve energy efficiency, household safety and to educate the public about maintaining energy efficiency. Families with income below 200% of the Federal Poverty Level or those receiving cash assistance payments under Work First or Supplemental Security Income are eligible for weatherization services. Priority is placed on providing assistance to the elderly, individuals with disabilities and families with children. The goal of the Weatherization Assistance Program is to keep North Carolina citizens warm in the winter, cool in the summer and safe all year long.
AREAS OF FOCUS IN A RESIDENTIAL HOME
INITIAL AUDIT

• TAKE SOMEWHERE BETWEEN 2.5 TO 3 HRS
• INSPECTION BEGINS OUTSIDE THE HOME
• SPANS FROM ATTIC TO CRAWLSPACE IF APPLICABLE
• AND ALL AROUND THE HOUSE LOOKING FOR ANY HAZARD TO CLIENT OR CREW
• CAZ AND COMBUSTION TEST ARE PREFORM WHEN GAS SYSTEMS ARE PRESENT; AT THE INITIAL AUDIT, DURING THE RENOVATIONS, AND THE FINAL INSPECTION TO ENSURE CLIENT, CREW AND INSPECTOR SAFETY
TOOLS FOR INITIAL AUDIT

• BLOWER DOOR
• DUCT BLASTER
• COMBUSTION ANALYZER
BLOWER DOOR

• USED THROUGHOUT THE ENTIRE PROCESS START TO FINISH

• FIRST READINGS ARE BASE LINE READINGS OF WHICH GOALS FOR THE HOME ARE SET

• A TOOL TO LOCATE AIR LEAKS IN THE PRESSURE BOUNDARY

• TEST THE DISCONNECTION FROM ATTIC AND CRAWLSPACES FROM THE CONDITIONED AREAS, THESE ARE CALLED ZONAL PRESSURES
DUCT BLASTER

• DUCT LEAKAGE THAT IS OUTSIDE OF THE BUILDING ENVELOPE CREATES AN ENERGY DRAIN. BLASTER TESTING IS IMPLEMENTED ON HOMES THAT HAVE LOW BLOWER DOOR NUMBERS AS WELL AS LOW PRESSURE RESULT FOR PRESSURE PAN TESTING TO MAKE SURE MEASURE ARE AS EFFICIENT AS POSSIBLE.

• DUCT TIGHTNESS TEST IS NOT REQUIRED IF THE AIR HANDLER AND ALL DUCTS ARE LOCATED WITHIN A CONDITIONED SPACE.

• DUCT BLASTER TESTING IS USED HAND IN HAND WITH BLOWER DOOR TESTING.
COMBUSTION ANALYZER

• THIS TOOL IS USED TO MAKE SURE ALL COMBUSTION APPLIANCES COMPLY WITH SAFETY STANDARDS

• WE ALSO TEST THE EFFICIENCY OF EACH APPLIANCE

• PERSONAL CO DETECTOR MAINTAIN PERSONAL SAFETY AND THAT OF OUR CLIENT IN THE HOME
• **BLOWER DOOR GUIDED AIR SEALING** – In all energy efficient structures, pressure and thermal boundaries are of utmost importance. This is accomplished by sealing top plates, junction boxes, chases, and plumbing penetrations in the attic and crawlspaces.

• **INSULATION** – Weatherization guidelines recognizes efficient insulation levels in attic spaces at R-38 and crawlspaces at R-19. We match existing insulation i.e. blown fiberglass or cellulose.

• **VAPOR BARRIERS** – Moisture retarder prolongs life span of insulation measure. Cover exposed ground under home with a 6 mil plastic.
IMPLEMENTATION
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• **HVAC REPAIR AND REPLACEMENT** - We focus on the safety over the efficiency due to funding and needs of our client pool. We replace like for like as far as fuel type. 15 SEER for heat pumps and 90+ for gas systems.

• **MECHANICAL VENTILATION** – Helps with moisture levels in the home and air intake. 80 CFM 1 SONE are installed with smart switch to regulate fresh air.

• **REFRIGERATORS** - Require passing a saving investment ratio above 1.
ENERGY SAVING SIMPLE SOLUTIONS

• CHANGE SYSTEM FILTERS REGULARLY
• CLOSE FIREPLACE DAMPER WHEN NOT IN USE
• WEATHERSTRIP EXTERIOR DOORS (INSULATED OR SOLID DOORS ARE BEST)
• INSULATE AND WEATHERSTRIP THE ATTIC ACCESS
• AIRTIGHT REFRIGERATOR GASKETS WILL HOLD A DOLLAR BILL MORE FIRMLY IN PLACE (ENERGY STAR APPLIANCES)
• FIX LEAKY FAUCETS AND PIPES
• ELIMINATE DRAFTS BY CAULKING OR FOAMING PLUMBING PENETRATIONS
• USE COLD WATER CYCLES WHEN WASHING CLOTHES AND CLEAN YOUR LINT FILTER BETWEEN LOADS
• SET THERMOSTAT AT 78 OR HIGHER IN THE SUMMER, 68 OR LOWER IN WINTER.
• CAULK AND SEAL LEAKY WINDOWS
• FOAM OR CAULK ANY HOLES PENETRATING TO THE CRAWLSPACE, ATTIC OR OUTSIDE THE CONDITIONED ENVELOPE.
FOLLOW UP

• CHECK TO INSURE THAT ALL SAFETY MEASURES AND WEATHERIZATION MEASURES ARE COMPLETED CORRECTLY.

• MAKE SURE ALL APPLIANCES ARE ENERGY STAR RATED.
QUESTIONS?