



## Testing In & Testing Out Requirements for Certified Professionals

Testing Requirements according to BPI Heating Standards (v: 11/20/07 mda)

Testing Required	When Required	Ref Pg.	Further Language	Ref Pg.
Gas Leak Detection	In homes with natural gas/propane service	3	The entire gas line must be examined and all leaks repaired. Particular care should be made in the immediate vicinity of the appliances and at the joints, shut off valves, and pilot lines. Identify leaks using a gas leak detector and accurately locate the source of the leak using a soap bubble solution.	8
Duct Leakage Testing	New installations; quantifying leakage, before work is done on a heating plant or ductwork	4	New installations of ducted distribution systems must be tested for leakage using a duct leakage testing device and duct tightness must meet or exceed the requirements set forth in the EPA standards for EnergyStar ducts. The sum of the supply and return leakage to outside, measured in cfm <sub>25</sub> , divided by the fan flow shall be no more than 10%. When quantifying duct leakage, an appropriate type of measurement system shall be used, which includes a metered and calibrated duct pressurization device.	4, 9, 10
Safety inspection of combustion appliances (Worst Case, spillage, draft, CO)	Heating plant replacement	5	Water heaters may not be left venting alone into a previously shared chimney without ensuring the chimney meets appropriate NFPA requirements under the new condition and the water heater has been tested and passed all required combustion safety tests (spillage, draft, CAZ depressurization).	5
Blower door test	Heating plant replacement	5	When atmospherically vented combustion appliances are replaced with sealed combustion units, an exhaust appliance has been removed from the home. To ensure that the building will have adequate air exchange after this retrofit, a blower door test must be completed and mechanical ventilation installed as needed to provide ventilation levels compliant with ASHRAE Standard 62-89. This procedure must be followed even if no alterations to the building shell are anticipated as part of the work scope.	5
Combustion gas analysis	For all heating plants	5	A combustion gas analysis is required on oil-fired and gas-fired furnaces and boilers, any time replacement or repair is not part of the intended work scope.	5
Temperature rise	Before and after work is performed	9	Forced air furnaces must be tested using a heat rise measurement.	9