**Applicable Codes Table**

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| **Broad Issue Faced by Installer** | **Applicable Code** | **What It Says** |
| Insulating over knob and tube wiring | 08 NEC 394.12 | Do not envelop knob and tube wiring with thermal insulation. |
| Ensuring proper clearance from high-temp vents to combustibles | NFPA 54 - National Fuel Gas Code: Table 10.7.4.4 Clearance for Connectors. | Table designates required clearance for various vent types. |
| Replacing doors/windows: egress | 06 & 09 IRC 301.1.2 & 3 | Minimum 20 in. wide and 24 in. high, 5.7 sq. ft. clear opening[[1]](#footnote-1) area UNLESS…(see below) |
| 06 & 09 IRC | …5.0 sq. ft. clear opening okay with direct grade-level access. |
| 06 IRC 311.4.4 & 09 IRC 311.2 | All egress doors require keyless operation from interior. |
| Adding required ventilation[[2]](#footnote-2) | ASHRAE 62.1 or | 15 CFM/person natural, 0.35 ACH |
| ASHRAE 62.2 | 7.5 CFM/person plus 1 CFM/100 sq. ft. mechanical ventilation |
| Ensuring indoor air quality/ conducting Combustion Appliance Zone testing | Refer to your (trainer-supplied) State Technical Manual and/or (trainer-supplied) State or regional Weatherization Field Guide |  |
| Replacing water heater | 09 IRC 2005.2 & 2406.2 | Fuel-fired WH prohibited in storage closets. |
| 09 IRC 2005.2 & 2406.2 and  09 UPC 505.1 | Fuel-fired WH prohibited in bedroom, bathroom, or their closets UNLESS WH is a direct-vent type OR separated by a weatherstripped, self-closing door with all combustion air coming from outside. |
| 09 IRC 2005.1 and  09 UPC 508.27 | Outdoor enclosure required unless WH listed for outdoors. |
| 09 IRC 1305.1 and  UMC | Minimum 30 in. working space in front; must be able to inspect or remove WH. |
| Replacing attic hatch | 06 & 09 IRC 807.1 | Rough opening minimum 22 in. x 30 in. |
| Installing new exhaust fan | 09 IRC 2407.4 and  09 UMC 701.1.4 | Provide make-up air to offset exhaust fans (kitchen, bath). |
| Installing new range hood ducts and exhaust | 09 IRC 1503.4 | Provide make-up air if the exhaust system is greater than 400 CFM. |
| Venting dryer exhaust to outdoors | 09 IRC 1502.4.2 (electric) or 2439.5.1 (gas) and  09 UMC 504.3.2.1 (electric) or 905.4B (gas) | Ducts must be smooth metal with no screws in air flow. |

**Abbreviations, notes on code organizations, and where to find the applicable codes:**

ASHRAE – The American Society of Heating, Refrigerating, and Air-Conditioning Engineers develops standards for those concerned with refrigeration processes and the design and maintenance of indoor environments. Codes are available for purchase at www.ashrae.org.

IAPMO – The International Association of Plumbing and Mechanical Officials works with government and industry to implement comprehensive plumbing and mechanical systems around the world. Codes are available for purchase at http://www.iapmo.org.

ICC – The International Code Council’s codes (I-Codes) provide minimum safeguards for people at home, at school, and in the workplace. The I-Codes are a complete set of comprehensive, coordinated building safety and fire prevention codes. Codes are available for purchase at www.intlcode.org.

IRC – International Residential Code is a comprehensive, stand-alone residential code for one- and two-family dwellings of three stories or less. (See also ICC). 09 IRC refers to the code published in 2009.

NEC – National Electric Code is a [U.S.](http://en.wikipedia.org/wiki/United_States) standard for the safe installation of [electrical wiring](http://en.wikipedia.org/wiki/Electrical_wiring) and equipment. It is part of the National Fire Codes series published by the [National Fire Protection Association](http://en.wikipedia.org/wiki/National_Fire_Protection_Association) (NFPA).

NFGC- National Fuel Gas Code – The American Gas Association serves as the secretariat to the ANSI Accredited Standards Committee (ASC) Z223 on National Fuel Gas Code. The ASC Z223 develops and publishes ANSI Z223.1, National Fuel Gas Code. The Code is jointly developed with the National Fire Protection Association (NFPA) 54 Committee and is also known as NFPA 54.

NFPA – The National Fire Protection Association develops, publishes, and disseminates more than 300 consensus codes and standards intended to minimize the possibility and effects of fire and other risks. Codes are available for purchase at [www.nfpa.org](http://www.nfpa.org). Codes frequently referenced in weatherization are NFPA 211 for chimneys and vents, NFPA 54, for fuel burning appliances, and NFPA 31 for oil burning appliances

UMC – Uniform Mechanical Code (See IAPMO)

UPC – Uniform Plumbing Code (See IAPMO)

There are four regional field guides:

DOE Weatherization Assistance Program, Midwest Regional Field Office. Midwest Weatherization Best Practices Field Guide May 2007. <http://www.waptac.org>.

DOE Weatherization Assistance Program – Seattle Regional Office and Energy Out West. Energy Out West Weatherization Field Guide. 2005. Copyright Saturn 2009. <http://www.azcommerce.com/doclib/ENERGY/EOW\_WX\_Field\_Guide.pdf>.

DOE Weatherization Assistance Program. Southeast Weatherization Field Guide. Date. Saturn Resources Inc.

DOE Weatherization Assistance Program – Boston Support Office. Northeast Weatherization Field Guide. Saturn Resources Inc.

1. Note: 24 in. x 20 in. = 3.34 sq. ft., meaning at least one dimension must be greater than the code minimum. [↑](#footnote-ref-1)
2. See the related worksheets in the Installer Intermediate “Mechanical Ventilation” section for more details. [↑](#footnote-ref-2)