ENVELOPE Field Guide

Identified existing moisture-related problems
  Appropriate identification of foundation/basement moisture issues
  Appropriate identification of living space moisture issues
Identified any existing indoor air contaminant sources
Identified existing fire hazards
Accurately identified structural problems in relationship to retrofitting insulation and/or performing air sealing

Correctly identified heating / cooling system types
Visual inspection of venting system for problems - NON-SCORABLE
  Determined condition accurately
Correctly set up for natural conditions
Correctly recorded pressure differential in the CAZ prior to turning on exhaust appliances
Correctly setup home in worst case condition - NON-SCORABLE
  All exhaust appliances running
  Correct door closures - measured quantitatively or qualitatively
  Air handler operation impact checked
Correctly checked for worst case spillage in heating system
Correctly determined if the appliance passes the spillage test
Correctly checked for worst case spillage in the domestic water heater
Correctly determined if the appliance passes the spillage test

Correctly prepared CO monitor for use while outside of the building
Correctly tested ambient CO indoors
Correctly measured heating system flue gas CO during combustion safety testing
Correctly measured DHW flue gas CO during combustion safety testing
Appropriately applied BPI action levels based on test results for CO in the flue (choose DHW or heating system)
Correctly monitored ambient CO levels in the CAZ during entire combustion safety tests
Tested for CO in oven - NON-SCORABLE
Correctly checked for items, excessive debris inside oven
Oven test sampling location appropriate

Combustion appliances set to pilot or disabled
Proper set-up of the blower door frame/shroud/fan
Proper set-up of the manometer
Proper house set-up for testing
Correctly measured baseline pressure differential
Accurate CFM50 measurement
Measured existing ventilation fan flow
Discussed ventilation needs in relation to existing fans
Conducted sample room by room inspection with blower door running
Recommended air sealing appropriately
Mentioned: Top plates and penetration through top and bottom floor
Recommended mechanical ventilation appropriately
Mentioned need for further pressure differential testing as appropriate
Properly identified significant cellar/crawl space leakage locations - Onsite
  Described proper method on sealing a specific location
  Described proper material for sealing a specific location
Properly identified significant attic leakage locations - Onsite
  Described proper method on sealing a specific location
  Described proper material for sealing a specific location
Properly identified significant exterior wall leakage locations - Onsite
  Described proper method on sealing a specific location
  Described proper material for sealing a specific location
Properly identified significant leakage locations with attached garages- Onsite
  Described proper method on sealing a specific location
  Described proper material for sealing a specific location
Zonal pressure differential testing performed
  Manometer set up correct
  Correctly interpreted results

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Identified opportunities for adding insulation
  Cost-effective
  Appropriate material selection
  Appropriate technique described
Specifically noted area benefiting from using dense-pack technique or foam
Indicated areas where baffling may be required to prevent wind washing
Indicated areas where baffling may be required for fire protection
Demonstrated understanding of air/thermal barrier alignment
  Showed example of alignment
Identified need for additional attic ventilation based on BPI Standards

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Duct Sealing
Demonstrated ability to perform duct leakage diagnostics with pressure pan
  Appropriate manometer set up
  Appropriate interpretation of test result
  Appropriate recommendation for repair
Demonstrated ability to identify duct leakage locations
  Demonstrated ability to prioritize repairs
  Appropriate materials selected for repairs
  Appropriate method selected for repair.

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Test Out
Candidate identified need for blower door testing after changes to building shell
Candidate identified need for CAZ testing after any retrofit work
Candidate identified need for other diagnostic testing needs after any retrofit work