



# BUILDING ANALYST Field Guide

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## Fuel Delivery

Correctly inspected gas/propane system for leaks/potential problems - NON-SCORABLE  
 Calibrate combustible gas detector (CGD) outside  
 Appropriate locations checked with appropriate speed  
 Mentioned method of verifying significant gas/propane leak (bubble solution) - ask

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## Combustion Safety Tests

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 set up home in worst case condition - NON-SCORABLE  
 All exhaust appliances running  
 Correct door closures - measured quantitatively or qualitatively  
 Air handler operation impact checked accurately  
 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

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## CO Testing

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

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## Heating System Distribution (Hydronic and Forced Air)

Properly identified supplies and returns on hydronic systems  
 Properly identified supplies and returns on ducted distribution systems

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## Infiltration Evaluation

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 setup for testing  
 Correctly measured baseline pressure differential  
 Accurate CFM50 measurement  
 Correctly measured existing ventilation fan flow  
 Conducted sample room by room inspection with blower door running  
 Correctly demonstrated usage of the pressure pan

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## Domestic Water Heater Inspection

Correctly identified type of domestic water heater  
 Accurately determined condition of basic safety controls