

2019 Energy Auditor Field Guide

Compare/Contrast Notes

2025 PILOT Energy Auditor Field Guide

Exterior		Exterior Evaluation
1. <b>GATED ITEM</b> Candidate prepared combustible gas and CO measurement instruments for use	Same task, minor wording change	1. <b>GATED ITEM</b> Candidate prepared combustible gas and carbon monoxide (CO) measurement instruments per manufacturer's instructions
2. Candidate displayed ability to accurately measure perimeter (lf) of home within 10% accuracy, or building section identified by proctor	← Removed from new exam	
3. Candidate identified the exterior cladding material(s)	Previously listed as a task for each location (siding, foundation, and roofing). In new exam, consolidated to one task for all three locations.	2. Candidate determined building orientation <b>and</b> discussed its impact on the building 3. Candidate identified the cladding materials for siding, foundation, and roofing
4. Candidate identified or discussed possibility of lead-based paint	Same task, minor wording change	4. Candidate assessed <b>and</b> discussed potential lead-based paint hazards
5. Candidate identified existing moisture issue(s) or potential moisture problems in general that have a negative impact on a home	← Specific moisture issues moved to Interior Evaluation Tasks 6 and 9 in new exam. → Other issues are included in this task on the new exam.	5. Candidate assessed possible components or issues that could affect the structural integrity of the building If no issues are identified, candidate discussed components or issues that could affect the structural integrity of the building
6. Candidate identified roof exposure and orientation	Changed to building orientation, Task 2 in this section	6. Candidate identified <b>one</b> exterior combustion appliance venting termination or <b>one</b> mechanical penetration
7. Candidate identified roof condition, materials, penetrations, and unusual features	← Roof condition and unusual features removed from the evaluation. Previously assessed roof penetrations (which include combustion appliance venting or mechanical penetration) are now called out in Task 6 in this section.	
8. Candidate identified condition of roof flashing and gutter system	← Removed from new exam	
9. Candidate provided a preliminary identification of the thermal boundary based on exterior inspection	← Removed from new exam	
10. Candidate summarized findings of exterior inspection of the building	← Removed from new exam	
Interior Safety Evaluation		Interior Evaluation
1. <b>GATED ITEM</b> Candidate tested indoor ambient CO levels and compared results to current version of ANSI/BPI-1200	Same task, minor wording change	1. <b>GATED ITEM</b> Candidate tested indoor ambient carbon monoxide levels (CO), verbally stated the readings and took appropriate action according to the current standard of reference
2. <b>GATED ITEM</b> Candidate tested indoor ambient air and verbally confirmed that combustible gases are below 10% of LEL on each floor	Same task, minor wording change. No longer a Gated Item.	2. Candidate tested indoor ambient air for combustible fuel gases on each floor, verbally stated the readings and took appropriate action according to the current standard of reference
3. Candidate located existing smoke and CO detectors	Same task with addition of assessing condition	3. Candidate determined the presence and condition of smoke and carbon monoxide detectors
	Worded differently, but same as Task 4 in Walls Section on existing exam	4. Candidate identified and assessed potential air leakage locations
	New task→	5. Candidate identified or discussed presence and placement of vapor retarders
4. Candidate identified or discussed mold or conditions that could promote the growth of mold	Task expanded in new exam to include moisture issues and evidence of water damage. See Tasks 6 and 9 in this section.	6. Candidate assessed and identified moisture issues If no issues are identified, candidate discussed potential moisture issues
5. Candidate identified or discussed electrical hazards	Same task, minor wording change	7. Candidate assessed and identified potential electrical hazards If no issues are identified, candidate discussed potential electrical hazards
6. Candidate identified or discussed signs of pest or vermin infestation	Same task, minor wording change	8. Candidate assessed and identified evidence of pest/vermin infestations If no issues are identified, candidate discussed potential evidence of pest/vermin infestations
	Expanded from Task 5 in Exterior section of existing exam	9. Candidate assessed the building for evidence of structural damage or water damage If no issues are identified, candidate discussed potential evidence of structural damage or water damage
7. Candidate accurately assessed clothes dryer vent configuration	Expanded task in new exam	10. Candidate verified that clothes dryer is properly vented to the exterior <b>and</b> determined if venting materials are appropriate to the appliance type If venting is inaccessible, candidate discussed proper venting conditions and venting materials <b>appropriate for the appliance type</b>
8. Candidate identified or discussed other safety concerns	← Removed from new exam	
	New task→	11. Candidate assessed the building for conditions that would interfere with or prevent blower door testing If no issues are identified, candidate discussed conditions that would interfere with or prevent blower door testing
	New task→	12. Candidate assessed the building for hidden or inaccessible spaces If none are identified, candidate discussed commonly found hidden or inaccessible spaces

9. Candidate conducted combustion gas leak testing according to current version of ANSI/BPI-1200 for 1-2 minutes and on at least 3 fittings	Same task	13. Candidate conducted combustion gas leak testing according to current version of ANSI/BPI-1200 for 1-2 minutes and on at least 3 fittings.
10. Candidate recommended leak detection solution to verify positive reading from detector	Same task	14. Candidate recommended leak detection solution to verify positive reading from detector
	New task→	15. Candidate identified or discussed possible deficiencies in the fuel supply lines
<b>Doors and Windows</b>		<b>Doors and Windows</b>
1. Candidate identified door material and features such as approximate R-value, fire rating, and glazing	Same task, minor wording change	1. Candidate assessed <b>one</b> exterior door, including type <b>and</b> material
2. Candidate evaluated door performance	Combined Tasks 2 and 3 from existing exam are Task 2 on new exam.	2. Candidate assessed condition of <b>one</b> exterior door, including evaluation of hardware, door sweep, seals, and operation
3. Candidate identified if door repairs needed	Combined Tasks 2 and 3 from existing exam are Task 2 on new exam.	
4. Candidate identified if energy retrofit measures needed for door(s)	← Removed from new exam	
5. Candidate discussed specific or general concerns with door replacement	← Removed from new exam	
		3. Candidate accurately measured <b>one</b> window <b>or</b> <b>one</b> door
6. Candidate identified window operation type(s)	Same task, minor wording change	4. Candidate assessed <b>one</b> exterior window type
7. Candidate identified window frame material(s)	Same task, minor wording change	5. Candidate assessed <b>one</b> exterior window frame material
8. Candidate identified window glazing type(s)	Same task, minor wording change	6. Candidate assessed <b>one</b> exterior window glazing type
9. Candidate displayed ability to accurately measure a window	Moved to Task 3 in this section on new exam	7. Candidate assessed condition of <b>one</b> exterior window, including evaluation of hardware, seals, and operation
10. Candidate assessed the orientation of windows and exterior shading	Same task, minor wording change	8. Candidate assessed <b>one</b> type of existing interior shading <b>and</b> <b>one</b> type of existing exterior shading If no shading exists, candidate discussed <b>one</b> type of interior <b>and</b> <b>one</b> type of exterior shading
	New task→ (partially covered in Task 1 of existing exam with R-value but otherwise not fully covered in existing exam)	9. Candidate assessed thermal characteristics of <b>one</b> exterior window <b>and</b> <b>one</b> exterior door
11. Candidate assessed and discussed window performance, operation, and general condition	Moved to Task 7 on new exam	
12. Candidate identified if repairs to window(s) needed		
13. Candidate identified if weatherization measures needed for window(s)	Specific tasks removed but are generally included in Task 7 in the new exam.	
14. Candidate discussed specific or general concerns with window replacement		
<b>Walls</b>		<b>Walls</b>
1. Candidate identified wall type, including structure and interior/exterior finish	Same task, minor wording change	1. Candidate assessed wall types, including structure, interior and exterior finishes
2. Candidate identified framing method, or discussed common framing types if test home is not wood-framed	← Identifying the structure type (e.g., balloon frame, platform frame, etc.) is part of Task 1 in new exam.	
3. Candidate determined wall cavity depth	Same task, minor wording change	2. Candidate assessed wall thickness and/or cavity depths
		3. Candidate assessed presence and type of wall insulation If wall insulation is not accessible, candidate described how to safely determine insulation type
4. Candidate identified or discussed infiltration points that impact the pressure boundary	Worded differently, but same as Task 4 in Interior Evaluation section on new exam	
5. Candidate determined repairs needed and structural integrity of wall(s) to be insulated	← Removed from new exam	
6. Candidate determined appropriate R-value of insulation to be added based on conditions and local program requirements	← Removed from new exam	
<b>Attic</b>		<b>Attic</b>
1. Candidate identified and evaluated location of existing thermal boundary and alignment with pressure boundary	Moved to Task 3 in this section on new exam	1. Candidate assessed attic insulation type <b>and</b> depth
2. Candidate identified or discussed infiltration points that impact the pressure boundary	← Removed from new exam	2. Candidate assessed attic insulation condition <b>and</b> coverage
3. Candidate identified or discussed air sealing sites requiring fire-safe materials and techniques	← Removed from new exam	3. Candidate identified and assessed location of existing thermal boundary and alignment with pressure boundary
4. Candidate discussed minimum attic ventilation requirements per local code, not specific to test house, including net free area	← Removed from new exam	
5. Candidate identified and evaluated existing attic ventilation	← Removed from new exam	
6. Candidate determined repairs needed and structural integrity of attic area to be insulated	← Removed from new exam	

7. Candidate determined insulation type and overall effective R-value, considering coverage and conditions	Split into Task 1 and 2 in this section on new exam. Removed effective R-Value as methods for determining can vary	
8. Candidate determined appropriate insulation R-value to be added based on conditions and local program requirements	← Removed from new exam	
9. Candidate discussed existing and potential health and safety issues in the attic	← Removed from new exam	
<b>Foundation</b>		
1. Candidate identified the foundation type and material	Part of Task 3, Exterior Evaluation	
2. Candidate discussed existing and potential health and safety issues in foundation spaces	← Removed from new exam	
3. Candidate determined if location of existing thermal and pressure boundaries are appropriate or should be changed	← Removed from new exam	
4. Candidate identified or discussed infiltration points that impact the pressure boundary in foundation spaces	← Removed from new exam	
5. Candidate identified insulation type, if present, and determined effective insulation R-value. If none present, candidate discussed common foundation insulation types and issues affecting performance	← Removed from new exam	
6. Candidate determined appropriate insulation R-value to be added based on conditions and local program requirements	← Removed from new exam	
7. Candidate identified or discussed sources and signs of moisture	← Removed from new exam	
8. Candidate determined appropriate measures to remediate moisture issues	← Removed from new exam	
<b>Mechanical Ventilation and Appliances</b>		<b>Mechanical Ventilation</b>
1. Candidate identified existing ventilation type(s)	Task 1 and 2 from existing exam combined into Task 1 on new exam	1. Candidate identified existing mechanical ventilation type(s) and controls
2. Candidate determined the type of fan control	Task 1 and 2 from existing exam combined into Task 1 on new exam	
	New task→	2. Candidate verified that exhaust fans are properly vented to the exterior (or discussed if not accessible)
3. Candidate assessed the condition of the ventilation ductwork	Same task, minor wording change	3. Candidate assessed the condition of the ventilation ductwork (or discussed if not accessible)
4. Candidate measured existing flow rate of ventilation fan	Same task, minor wording change	4. Candidate accurately measured existing flow rate of one ventilation fan
<b>Tasks 5-10 were moved to a new section</b>		<b>Appliance and Base Load</b>
5. Candidate collected manufacturer's data plate information from one electric appliance	Same task	1. Candidate collected manufacturer's data plate information from one electric appliance
6. Candidate evaluated possible refrigerator replacement	← Removed from new exam	
7. Candidate evaluated possible lighting upgrades	← Removed from new exam	
8. Candidate identified other sources that contribute to a home's increased electrical consumption	← Removed from new exam	
9. Candidate discussed water saving opportunities	← Removed from new exam	
	Reworked from Task 7 in existing exam→	2. Candidate assessed lighting and identified bulb type, wattage, fixture, and usage for one lamp/luminaire
	New task→	3. Candidate correctly identified the amperage rating of the main electrical panel (or discussed if main electrical panel is not accessible)
	New task→	4. Candidate identified or discussed additional baseload appliances that use energy
10. Candidate measured or discussed how to measure the flow rate of a showerhead or faucet	Same task	5. Candidate measured or discussed how to measure the flow rate of a showerhead or faucet
<b>Heating, Cooling and DHW Equipment</b>		<b>Heating, Cooling and DHW Equipment</b>
1. Candidate identified heating / cooling system type(s)	Same task, expanded to add fuel type	1. Candidate identified heating/cooling system type(s) and fuel type
2. Candidate identified basic heating / cooling system operating components	← Removed from new exam	
	New task→	2. Candidate collected manufacturer's data plate information from one of the following: heating, ventilation, air conditioning, or water-heating appliance
	New task→	3. Candidate identified location, type, and appliance(s) served by one thermostat
3. Candidate identified safety features related to heating / cooling appliances	Same task, minor wording change	4. Candidate identified safety features related to one HVAC appliance
4. Candidate identified or discussed existing heating / cooling system health and safety concerns	Same task, minor wording change	5. Candidate identified existing heating/cooling system health and safety concerns If none are present, candidate discussed potential heating/cooling system health and safety concerns
5. Candidate completed visual inspection of appliance flue system(s) for problems	Expanded from flue (venting) inspection to include general condition of combustion appliances	6. Candidate assessed general condition of combustion appliances and assessed the condition, configuration, material and pitch of the venting

6. Candidate assessed opportunities for heating / cooling system performance enhancements	← Removed from new exam	
7. Candidate evaluated the distribution system integrity and adequacy	Removed adequacy from new exam as it was a problematic term	7. Candidate evaluated the distribution system integrity
8. Candidate assessed opportunities for distribution system insulation	Same task	8. Candidate assessed opportunities for distribution system insulation
9. Candidate evaluated available fuel switching opportunities for heating appliance(s)	← Removed from new exam	
10. Candidate identified domestic water heating appliance type	Same task, expanded to add fuel type	9. Candidate identified water heating appliance type and fuel type
11. Candidate identified or discussed water heating appliance health and safety concerns	Same task, minor wording change	10. Candidate identified existing water-heating appliance health and safety concerns If none are present, candidate discussed potential water-heating appliance health and safety concerns
12. Candidate identified safety features of domestic water heating appliance	Same task, minor wording change	11. Candidate identified safety features related to water-heating appliance
13. Candidate determined if current temperature settings pose health & safety and energy concerns	← Removed from new exam	
14. Candidate identified or discussed opportunities for water heater insulation based on name plate data or manufacturer specifications	← Removed from new exam	
15. Candidate identified or discussed opportunities for domestic hot water pipe insulation	← Removed from new exam	
<b>CAZ Testing</b>		<b>Combustion Appliance Zone (CAZ) Testing</b>
	New task →	
1. Candidate set up home for CAZ Testing	Same task, minor wording change	1. Candidate identified combustion appliance zone(s) (CAZ)
2. Candidate set up manometer and tubing correctly	Same task, minor wording change	2. Candidate properly set up home for CAZ testing
3. Candidate correctly measured baseline pressure differential	Same task, minor wording change	3. Candidate correctly set up manometer and tubing
4. Candidate turned on exhaust appliances and recorded reading	Same task, minor wording change	4. Candidate correctly measured initial pressure (baseline) differential in the CAZ with reference to outside
5. Candidate checked air handler impact on CAZ depressurization and recorded reading	Same task, minor wording change	5. Candidate turned on all exhaust appliances and recorded or verbally stated the reading
6. Candidate opened interior door to CAZ and recorded reading	Same task, minor wording change	6. Candidate checked the impact of the HVAC air handler in the CAZ and recorded or verbally stated the reading If the air handler cannot run independently, candidate must discuss potential impact of air handler operation within the CAZ
7. Candidate identified conditions causing greatest CAZ depressurization	Same task	7. Candidate configured all interior doors, including CAZ door, to create greatest CAZ depressurization and recorded or verbally stated the reading
8. Candidate checked for spillage in one appliance under greatest CAZ depressurization and stated time limits for spillage testing based on current version of ANSI/BPI-1200	Same task	8. Candidate identified conditions causing greatest CAZ depressurization
9. Candidate determined if the appliance passes the spillage test	Same task	9. Candidate checked for spillage in one appliance under greatest CAZ depressurization and stated time limits for spillage testing based on current version of ANSI/BPI-1200
10. Candidate made appropriate recommendations for the CAZ according to current version of ANSI/BPI-1200	Same task	10. Candidate determined if the appliance passes the spillage test
		11. Candidate made appropriate recommendations for the CAZ according to current version of ANSI/BPI-1200
<b>Combustion Safety and Efficiency Testing, Oven and Stovetop Testing</b>		<b>Combustion Safety and Efficiency Testing, Oven and Stovetop Testing</b>
	Same task as No. 7 in existing exam, minor wording change →	
1. Candidate measured CO in the water heater flue gases	Changed from testing heating appliance and water heater to CO testing one combustion appliance. Candidate chooses which appliance if there are more than one.	1. <b>GATED ITEM</b> Candidate tested indoor air levels for carbon monoxide throughout combustion safety and efficiency testing and took appropriate action according to current standard of reference. Candidate verbally stated the readings
2. Candidate applied correct action level based on test results for CO in the flue of the water heater, referencing current version of ANSI/BPI-1200	Same task on new exam, but candidate is only required to perform CO testing on one appliance	2. Candidate accurately measured CO in the flue gases of one natural draft vented appliance at the time interval specified in current version of ANSI/BPI-1200
3. Candidate measured CO in the heating system flue gases	Changed from testing heating appliance and water heater to CO testing one combustion appliance. Candidate chooses which appliance if there are more than one.	3. Candidate applied correct action level based on test results for CO in the flue of the appliance, referencing current version of ANSI/BPI-1200
4. Candidate applied correct action level based on test results for CO in the flue of the heating system, referencing current version of ANSI/BPI-1200	Same task on new exam, but candidate is only required to perform CO testing on one appliance	
5. Candidate conducted and evaluated Steady State Efficiency test on heating system	Same task, minor wording change	4. Candidate accurately measured and evaluated Steady State Efficiency of heating system
6. Candidate measured and evaluated temperature rise in heating system	Same task, minor wording change	5. Candidate accurately measured temperature rise in heating system and compared result to manufacturer's specified range
7. <b>GATED ITEM</b> Candidate monitored and stated ambient CO levels measured in the CAZ during entire combustion safety testing	Same task as No. 1 in this section of new exam, minor wording change	

8. Candidate checked for items, excessive debris inside oven	Same task	6. Candidate checked for items, excessive debris inside oven
9. Candidate used appropriate sampling location for the oven test	Same task, language added for clearer direction to candidate	7. Candidate used appropriate sampling location for the oven test and obtained accurate CO measurement at the time interval specified in current version of ANSI/BPI-1200
10. Candidate applied correct action levels in current version of ANSI/BPI-1200 based on test results for CO in oven	Same task	8. Candidate applied correct action levels in current version of ANSI/BPI-1200 based on test results for CO in oven
11. Candidate inspected stovetop burners for flame quality	Same task	9. Candidate visually inspected stovetop burners for flame quality
<b>Blower Door Testing</b>		<b>Blower Door Testing</b>
1. <b>GATED ITEM</b> Candidate set combustion appliances to pilot or standby	Same task, language added for clearer direction to candidate	1. <b>GATED ITEM</b> Candidate ensured that combustion appliances cannot fire during blower door testing
2. Candidate verified solid fuel appliances are in the appropriate condition to allow for blower door testing to be performed	Same task, language added for clearer direction to candidate	2. Candidate verified solid fuel appliances are in the appropriate condition to allow for blower door testing to be performed If solid fuel combustion appliances are not present, candidate discussed appropriate conditions for blower door testing
3. Candidate set up the blower door frame/shroud/fan correctly	Same task, minor wording change	3. Candidate correctly set up the blower door frame/shroud/fan
4. Candidate set up house correctly in accordance with one of the approved methods listed in current version of ANSI/BPI-1200	Same task	4. Candidate correctly set up house in accordance with one of the approved methods listed in current version of ANSI/BPI-1200
5. Candidate set up the manometer correctly	Same task, minor wording change	5. Candidate correctly set up the manometer and tubing
6. Candidate established baseline pressure differential	Same task, minor wording change	6. Candidate correctly measured baseline pressure differential
7. Candidate conducted test to obtain an accurate CFM50 reading	Same task	7. Candidate conducted test to obtain an accurate CFM50 reading
8. Candidate interpreted the blower door reading correctly and discussed recommendations	Same task, minor wording change	8. Candidate correctly interpreted the blower door reading and discussed recommendations
9. Candidate measured and evaluated zonal pressure differential to one or two zones (using one-point test)	Similar task, simplified to specify one zone rather than one or two po	9. Candidate correctly performed single point zonal pressure differential of one zone and interpreted results
10. Candidate conducted sample room by room inspection with blower door running	Same task as no. 11 on new exam, language added for clearer direction to candidate	
11. Candidate correctly used pressure pan to evaluate duct leakage	Same task, language added for clearer direction to candidate	10. Candidate correctly performed pressure pan test on <b>one</b> duct register and interpreted results
12. Candidate discussed how and when to perform a blower door pressurization test	← Removed from new exam	
	Same task as no. 10 on existing exam, language added for clearer direction to candidate	11. Candidate determined <b>two</b> points of infiltration/exfiltration with blower door running
<b>Duct Pressurization Testing</b>		<b>Duct Pressurization Testing</b>
1. Candidate demonstrated how to connect duct tester fan to distribution system correctly (do not turn on fan)	Same task	1. Candidate demonstrated how to connect duct tester fan to distribution system correctly (do not turn on fan)
2. Candidate set up manometer, tubing, and probe correctly for duct testing	Same task, minor wording change	2. Candidate correctly set up manometer, tubing, and probe for duct testing
3. Candidate demonstrated how to seal one duct register	Same task, minor wording change	3. Candidate demonstrated how to temporarily seal <b>one</b> duct register
4. Candidate discussed procedure for conducting full duct pressurization test	Same task	4. Candidate discussed procedure for conducting full duct pressurization test
5. Candidate discussed applicable standard(s) for interpreting duct tester diagnostic results	Same task	5. Candidate discussed applicable standard(s) for interpreting duct tester diagnostic results
6. Candidate discussed how to prioritize repairs	Same task	6. Candidate discussed how to prioritize repairs