

EnergyLogic University

BPI Building Analyst week long Training

Time	Sunday	Monday	Time	Tuesday	Time	Wednesday
8:00	Arrive in town with enough time to be at class at 8 am on MONDAY	Introductions	8:00	Principals of Moisture - 85 Slides	8:00	Blower Door Demo and Hands-On
8:15		Logistics & class expectations	8:15	Durability, Bulk Water, Vapor, IAQ, CO	8:15	
8:30		Building Science 101 - 126 slides	8:30	Ventilation ASHRAE 62.2	8:30	
8:45		Overview - the cert and & brief history	8:45		8:45	
9:00		The climate & systems thinking	9:00		9:00	
9:15		Air-flow - driving forces	9:15		9:15	"
9:30		Energy & energy movement	9:30		9:30	"
9:45		Human comfort	9:45		9:45	"
10:00		Intro to Thermography	10:00	15 min break	10:00	15 min break
10:15		15 min break	10:15	Water Heaters -43 Slides	10:15	Duct-Blaster Video
10:30		Advanced Framing - 54 slides	10:30	Energy factor, tanks, tankless, solar	10:30	Intro to Duct Leakage - 53 Slides
10:45		Framing factor & window-to-wall ratio	10:45		10:45	Mastic, efficiency, total leakage, LTO
11:00		Thermal bridging, types of framing	11:00		11:00	Leakage frame of reference
11:15			11:15	Intro to Mechanical - 33 Slides	11:15	
11:30			11:30	Comfort, HVAC design, design temp	11:30	
11:45			11:45	HHD, CDD, sensible and latent heat	11:45	"
12:00		Lunch	12:00	Lunch	12:00	Lunch
12:15		Lunch	12:15	Lunch	12:15	Lunch
12:30		Lunch	12:30	Lunch	12:30	Lunch
12:45		Lunch	12:45	Lunch	12:45	Lunch
1:00		Insulation 101 - 135 slides	1:00	Mechanical Systems 83 Slides	1:00	Pressure Diagnostics - 58 Slides
1:15		R & U-Value, RESNET grading,	1:15	Space heating, space cooling	1:15	Review driving forces, goals of PD,
1:30		Heat flow, weighted-R, parallel path	1:30	Heat pumps, low energy cooling	1:30	50 pa reference, ALA, TBC issues
1:45		Types and application, retrofitting	1:45	Default values	1:45	Mechanical driven pressures
2:00			2:00		2:00	Pressure house Demo
2:15			2:15		2:15	
2:30		"	2:30	"	2:30	Pressure house Demo
2:45		"	2:45	"	2:45	
3:00		3:00		3:00	15 min break	
3:15	15 min break	3:15	15 min break	3:15		
3:30	Air Barriers & Vapor Barriers - 57 slides	3:30		3:30	Analyzing Consumption & Low Hanging Fruit- 24 Slides	
3:45	Defining the two, problems, condensation	3:45	Intro To Blower Door - 37 Slides	3:45	Background on energy in your market	
4:00	How to install	4:00	Pascal, doing a test, intro to the DG700	4:00	Utility bill analysis	
4:15		4:15	Can't reach 50, expressions of leakage, ACH, NACH	4:15	Lights and Appliances	
4:30		4:30	"	4:30		
4:45	Windows - 54 Slides	4:45		4:45		
5:00	NFRC, U-value, SHGC, VT, AL, Low-e	5:00		5:00		
5:15	Gases, frame, edge, comfort, passive solar	5:15		5:15		
5:30		5:30		5:30		
5:45	Homework: Read Krigger, Practice Test #1	5:45	Homework: Read Krigger, Practice Test #2	5:45	Homework: Read Krigger, Practice Test #3	

Objective: Produce well grounded basic Building analysis capable of conducting energy audits

Focus points: Emphasize building science foundation
 Emphasize hands-on whenever possible
 Emphasize "auditor" as analyst not data gatherer

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Time	Thursday	Time	Friday	Time	Saturday
8:00	Auditing 101 - 52 Slides	8:00	Field House Hands On	8:00	Field Test
8:15	The Building Analysis	8:15	CAZ Testing	8:15	
8:30	Approaching a house -Drawing	8:30	Building tightness limits	8:30	
8:45	Intro to scope of work	8:45	Auditing discussion	8:45	
9:00		9:00	Draw a house	9:00	
9:15		9:15	"	9:15	
9:30		9:30	"	9:30	
9:45		9:45	"	9:45	
10:00		10:00	"	10:00	
10:15	15 min break	10:15	15 min break	10:15	Field Test
10:30	BPI Building Analyst Standards - 55 Slides	10:30		10:30	
10:45	Health & Safety	10:45		10:45	
11:00	Building air flow Standard	11:00		11:00	
11:15	Test in - Test out	11:15		11:15	
11:30	Building Evaluation	11:30		11:30	
11:45	CO- Testing	11:45	"	11:45	
12:00	Lunch	12:00	Lunch	12:00	
12:15	Lunch	12:15	Lunch	12:15	
12:30	Lunch	12:30	Lunch	12:30	Field Test
12:45	Lunch	12:45	Lunch	12:45	
1:00	BPI - CAZ Testing - 118	1:00	Test Prep	1:00	
1:15	CO what is it How is it produced	1:15		1:15	
1:30	Combustion air	1:30		1:30	
1:45	Venting Draft and spillage	1:45		1:45	
2:00	BPI Testing procedure	2:00		2:00	
2:15		2:15	"	2:15	
2:30	"	2:30	"	2:30	
2:45	"	2:45	"	2:45	Field Test
3:00	15 min break	3:00	BPI written knowledge test	3:00	
3:15	Field House Hands On	3:15	"	3:15	
3:30	CAZ Testing	3:30	"	3:30	
3:45	Building tightness limits	3:45	"	3:45	
4:00	On EnergyLogic House	4:00	"	4:00	
4:15		4:15	"	4:15	
4:30		4:30	"	4:30	
4:45		4:45	"	4:45	
5:00		5:00		5:00	
5:15		5:15		5:15	
5:30		5:30		5:30	
5:45	Homework: Read Krigger, Practice Test #4	5:45	Review for Field Test	5:45	