

EnergyLogic University

Rater Training Curriculum (page 1 of 2)

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	Duct-Blaster Video
8:15		Logistics & class expectations	8:15	Durability, Bulk Water, Vapor, IAQ, CO	8:15	Intro to Duct Leakage - 53 Slides
8:30		Building Science 101 - 126 slides	8:30	Ventilation ASHRAE 62.2	8:30	Mastic, efficiency, total leakage, LTO
8:45		Overview - the cert and & brief history	8:45		8:45	Leakage frame of reference
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	Duct Leakage Demo
9:45		Human comfort	9:45		9:45	EnergyLogic House
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	Pressure Diagnostics - 58 Slides
10:30		Advanced Framing - 54 slides	10:30	Energy factor, tanks, tankless, solar	10:30	Review driving forces, goals of PD,
10:45		Framing factor & window-to-wall ratio	10:45		10:45	50 pa reference, ALA, TBC issues
11:00		Thermal bridging, types of framing	11:00		11:00	Mechanical driven pressures
11:15			11:15	Intro to Mechanical - 33 Slides	11:15	Pressure house Demo
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	RESNET Standards - 61 Slides
1:15		R & U-Value, RESNET grading,	1:15	Space heating, space cooling	1:15	Read Provider expectation on your own time
1:30		Heat flow, weighted-R, parallel path	1:30	Heat pumps, low energy cooling	1:30	It is on the thumb drive and in the class binder
1:45		Types and application, retrofitting	1:45	Default values	1:45	EEMs and EIMs - 19 Slides
2:00			2:00		2:00	How they work
2:15			2:15		2:15	
2:30		"	2:30	"	2:30	
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	Intro to REM/Rate™ - 32 Slides
3:30	Air Barriers & Vapor Barriers - 57 slides	3:30	Intro To Blower Door - 37 Slides	3:30	How REM/Rate™ works, the reference house, libraries	
3:45	Defining the two, problems, condensation	3:45	Pascal, doing a test, intro to the DG700	3:45	The REM/Rate™ data entry pages, conditioned space	
4:00	How to install	4:00	Can't reach 50, expressions of leakage, ACH, NACH	4:00		
4:15		4:15		4:15	Blue Print Basics - 63 Slides	
4:30		4:30	"	4:30	Scale, plan view, section, elevation	
4:45	Windows - 54 Slides	4:45	Blower Door Demo and Hands-On	4:45	Compass, measuring a house, math,	
5:00	NFRC, U-value, SHGC, VT, AL, Low-e	5:00		5:00	Demonstration TOW, extra time	
5:15	Gases, frame, edge, comfort, passive solar	5:15		5:15		
5:30		5:30		5:30		
5:45		5:45		5:45	<u>Review what to bring to field and expectations</u>	
6:00	Homework: Read Krigger, Practice Test #1	6:00	Homework: Read Krigger, Practice Test #2	6:00	Homework: Read Krigger, Practice Test #3	

Objective: Produce well grounded basic energy raters capable of conducting energy ratings on homes

Focus points:
 Emphasize building science foundation
 Emphasize hands-on whenever possible
 Emphasize "rater" as analyst not data gatherer
 Build up to advanced training

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Rater Training Curriculum (page 2 of 2)

Time	Thursday	Time	Friday	Time	Saturday
8:00	Analyzing Consumption - 24 Slides	8:00	New Construction Field Rating	8:00	
8:15	Background on energy in your market	8:15	Meet on site	8:15	
8:30	Utility bill analysis	8:30	Data collection, total duct leakage	8:30	
8:45		8:45	LTO, blower door test	8:45	
9:00	Review what is needed for existing home	9:00	"	9:00	Test Prep
9:15	Data collection: begin collecting the data	9:15	"	9:15	Last Questions, Make sure computers are working
9:30	"	9:30	"	9:30	"
9:45	15 min break	9:45	"	9:45	"
10:00	Data collection On EnergyLogic House	10:00	"	10:00	National RESNET HERS Test
10:15	Sketch	10:15	"	10:15	
10:30	Windows	10:30	"	10:30	"
10:45	Mechanical & Ventilation	10:45	"	10:45	"
11:00	Insulation	11:00	"	11:00	"
11:15	"	11:15	"	11:15	"
11:30	"	11:30	"	11:30	"
11:45	"	11:45	"	11:45	"
12:00	Lunch	12:00	Lunch	12:00	"
12:15	Lunch	12:15	Lunch Back at Office	12:15	No Lunch Provided
12:30	Lunch	12:30	Lunch	12:30	
12:45	Lunch	12:45	Lunch	12:45	
1:00	Existing Home Take-off and REM/Rate™ In	1:00	Field Rating	1:00	
1:15	"	1:15	Take-off and Input	1:15	
1:30	"	1:30	"	1:30	
1:45	"	1:45	"	1:45	
2:00	"	2:00	"	2:00	
2:15	"	2:15	"	2:15	
2:30	"	2:30	"	2:30	
2:45	15 min break	2:45	"	2:45	
3:00	"	3:00	"	3:00	
3:15	"	3:15	"	3:15	
3:30	"	3:30	"	3:30	
3:45	"	3:45	"	3:45	
4:00		4:00	Review Practice Test #4	4:00	
4:15		4:15	"	4:15	
4:30	Review Practice Test #2 & #3 If time	4:30	"	4:30	
4:45	"	4:45	"	4:45	
5:00	"	5:00	"	5:00	
5:15	"	5:15	"	5:15	
5:30	Quick review of plan-set in binder	5:30	"	5:30	
5:45	available for practice rating or one Probationary Rating	5:45	"	5:45	
6:00	Homework: Read Krigger, Practice Test #4	6:00	Homework: Study for RESNET Test	6:00	