Kentucky CTE

Construction: Residential Energy Auditor Prep 460804 (2026–2027)

Safety and Health: 1	a	**Receive safety training applied to energy auditing.** 1.A
	b	**Discuss safety considerations for air leakage.** 1.B
	c	**Discuss combustion safety.** 1.C
	d	**Evaluate chimneys and liners and safety.** 1.D
	e	**Discuss and evaluate health and safety issues, pollutant sources, and CO.** 1.E
	f	**Inform students about lead-safe weatherization.** 1.F
	g	**Practice electrical safety.** 1.G
Energy Auditor Prep: 2	a	**Discuss the purpose of an energy audit.** 2.A
	b	**Explore the energy auditing process, visual inspection, diagnostics testing, and numerical analysis.** 2.B
	c	**Examine differences in work inspections, in-progress inspections, final inspections, quality assurance, and energy auditing gas and ethics.** 2.C
	d	**Evaluate attic and roof insulation, story-and-a-half homes, and closed-roof cavities.** 2.D
	e	**Evaluate walk-up stairways and doors and retractable attic stairways.** 2.E
	f	**Evaluate wall insulation.** 2.F
Ethics and Consumer Relations: 3	a	**Practice customer relations, communication skills, customer interviews, and best sales practices.** 3.A
	b	**Practice customer education, reducing heating consumption, hot water and laundry, and cooling consumption.** 3.B
		Use infrared and thermal scanning. 3.C

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Building Shell Diagnosing and Shel Leakage: 4	**a** Discuss safety considerations for air leakage. 4.A
	b Observe and learn about air leakage problems and solutions. 4.B
	c Discuss goals of air leak testing and use of blower door. 4.C
	d Discuss and practice air sealing approaches. 4.D
	e Discuss crawl space moisture control. 4.E
	f Describe heat sink methods. 4.F
	g Evaluate moisture problems and mold. 4.G
	h Evaluate shell leakage. 4.H
Evaluate Heating and Air Conditioning Systems: 5	**a** Evaluate heating system replacement. 5.A
	b Perform inspection of gas and oil furnaces. 5.B
	c Discuss wood stove safety and venting. 5.C
	d Test draft and venting of combustion air. 5.D
	e Practice leak testing for gas piping. 5.E
	f Perform co-carbon monoxide testing pap. 5.F
	g Discuss ways of improving inadequate draft. 5.G
	h Evaluate duct air distribution. 5.H
	i Practice evaluating duct leakage. 5.I
	j Discuss duct insulation and type. 5.J
	k Discuss instructions and installation of programmable thermostats. 5.K
	l Perform electric heating inspections. 5.L
	m Perform heat pump inspections. 5.M
	n Practice evaluating central air conditioning system. 5.N
	o Check duct leakage and airflow. 5.O
	p Review ASHRAE (American Society of Heating, Refrigeration, and Air Conditioning Engineers) 6.2.2-2007 ventilation standards. 5.P
	:valuate whole house ventilation systems. 5.Q

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Evaluate Water Heaters: 6	a	**Complete water heater inspection: gas, electric, tankless, and solar.** 6.A
	b	**Evaluate water heater energy savings.** 6.B
Evaluation Base-Load Measures, Windows, Doors, and Exterior Insulation: 7	a	**Understand energy usage, base-load usage, seasonal usage, energy index, electrical peak load, and carbon footprint.** 7.A
	b	**Identify thermal bonding decisions and determine floor and foundation insulation.** 7.B
	c	**Discuss combustion safety.** 7.C
	d	**Evaluate chimneys and liners and safety.** 7.D
	e	**Practice air conditioning equipment sizing.** 7.E
	f	**Discuss lighting improvements.** 7.F
	g	**Explore different window shading/treatments interior and exterior.** 7.G
	h	**Observe and discuss landscaping for shade.** 7.H
	i	**Discuss exterior storm windows.** 7.I
	j	**Evaluate window replacement and weather stripping.** 7.J
	k	**Evaluate moisture problems and mold.** 7.K
	l	**Practice evaluating belly and side wall insulation.** 7.L
	m	**Discuss the evaluation of window and door replacements.** 7.M
Mobile Homes: 8	a	**Evaluate moisture problems and mold.** 8.A
	b	**Discuss crawl space moisture control.** 8.B
	c	**Explore mobile home general auditing tasks.** 8.C
	d	**Practice evaluating mobile home insulation.** 8.D
	e	**Practice evaluating belly and side wall insulation.** 8.E
	f	**Evaluate shell leakage.** 8.F
	g	**Discuss the evaluation of window and door replacements.** 8.G