

Location: 2413 Nashville Road, Bowling Green, KY 42101 Room 129

Date: TBD

Time: 8:30 AM - 5:00 PM CST



BUILDING SCIENCE THERMOLOGIST
KENTUCKY THERMAL INSTITUTE

Day 1

8:30 AM	Introductions <i>Educators</i> <i>Staff</i> <i>Students</i>
	Certification Summary <i>Institute Welcome / Expectations of Course / Testing Standards</i>
	Thermal Imager Review - FLIR Product Line
9:30 AM	BREAK - 10 Minutes
10:00 AM	Introduction to FLIR Cameras <i>Infrared Camera Basics</i>
	The Science of Infrared <i>Infrared Wavelengths</i> <i>The 1st Law of Thermodynamics</i> <i>The Principles of IR</i>
	Demonstration of the Principles of IR <i>Hands on with cameras to learn IR properties</i>
11:00 AM	BREAK - 10 Minutes
	Qualitative Data with IR <i>Qualitative vs Quantitative</i> <i>MSX</i> <i>The importance of an accurate scan</i> <i>Spatial Resolution</i> <i>FORD</i>

This agenda is subject to change. A final agenda will be provided on Day 1 of class, available beforehand on request.

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Day 1, Cont.

12:00 PM	Lunch - Provided
1:00 PM	Energy Loss Applications
2:30 PM	BREAK - 10 Minutes
	Commercial and Residential Roofing Systems <i>Methods for IR Roof Scanning</i> <i>Moisture Intrusion</i> <i>Locating and Tracing Moisture</i>
	Moisture Intrusion
4:00 PM	BREAK - 10 Minutes
	Day 1 Content Review <i>Class discussion</i> <i>Day 2 layout</i>
	Day 1 Quiz - 10 Questions <i>Review of Answers</i>
5:00 PM	Day 1 Education Complete

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Day 2

8:30 AM	Infrared Camera Training <i>Full Infrared Camera Training for Usage WiFi and Bluetooth Connectivity</i>
	BREAK - 10 Minutes
	Hands on Usage with Infrared Cameras and Meters <i>Become Comfortable with IR while Walking the Center for R&D</i>
9:30 AM	IR Report Pro Software Introduction <i>Introduction to IR Report Pro Reporting and Image Tuning Software</i>
10:00 AM	Block Wall Inspections
11:00 AM	FIELD TRIP - Block Wall Inspection
12:30 PM	Lunch - Provided
1:30 PM	IR Report Pro Software Training <i>Report Writing 101 Common Verbiage Image Importing Email a 1 image report</i>
2:30 PM	Electrical Safety and NFPA Standards
	Breakers <i>The Three Types of Breaker Heating</i>
3:15 PM	BREAK - 10 Minutes

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Day 2, Cont.

	Industrial Thermography <i>Fuses</i> <i>Contactors</i> <i>Transformers</i> <i>Bus Duct</i> <i>Busbar</i> <i>Motors</i>
4:30 PM	BREAK - 10 Minutes
	Day 2 Quiz <i>Review of Answers</i>
5:00 PM	Day 2 Education Complete

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Day 3

8:30 AM	Course Review <i>Review of Course Content Thus Far</i> <i>Question and Answer Session</i>
9:00 AM	Industrial Thermography, Continued.
10:00 AM	BREAK - 10 Minutes
	FLIR Camera Training Review <i>Quick Review of Camera Functions and Usage</i> <i>Preparation for Field Trip - Off Site</i>
	FIELD TRIP - Moisture Intrusion, Energy Applications
12:00 PM	Lunch - Provided
1:00 PM	IR Report Pro Software Training <i>Image Importing</i> <i>Image Tuning for Moisture Identification</i>
	Review of all Content <i>Open classroom discussion</i>
2:30 PM	BREAK - 10 Minutes
	Diversification Counseling <i>Ancillary Education</i> <i>Services and Recommended Pricing</i> <i>Maintenance, Calibration, and Warranty Services</i>

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Day 3, Cont.

3:30 PM	Begin Final Examination <i>Break while Instructors grade final examinations</i>
4:30 PM	Review of All Testing Material <i>Open Classroom Discussion</i>
	Certification Awards <i>Receive Certification and Logo Package</i>
5:00 PM	Day 3 Education Complete