

# Certified Residential Thermography Course



**2 DAY Training** - Certified Residential Thermographer **Cost: \$495.00** – includes training materials, proctored exam, a certificate of certification for those that pass the exam, PLUS marketing tools.

The class also qualifies for 2 continuing education credits with IICRC,



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Geared to the new infrared camera user, user to be and veteran camera owner, this course focuses on thermal imager use for Home and Building Inspection Professionals. Attendees successfully completing all training course requirements and a course examination can receive confirmation as a Certified Residential Thermographer. Students complete the course with a much stronger understanding of Thermal Imaging capabilities and applications as well as the confidence and competence to immediately put that knowledge to use.

## **Building Performance Professionals**

**Customers are getting smarter and expecting you to utilize all the tools available to provide them the best information available on resolving their moisture problem.**

**Infrared** is a very powerful tool that helps you find and identify today what could be a much bigger issue to your customer (or your customer's customer) tomorrow.

### **Certified Residential Thermographer Course Benefits:**

- Imaging and measurement systems for predictive inspection introduction to thermal and maintenance applications. No experience in thermography is necessary!
- Collect quality data, accurate temperature readings, and account for measurement effects such as distance and emissivity using infrared cameras.
- Interpret thermograms and make informed decisions using heat transfer concepts to analyze thermal images, and see the latest in infrared inspection report generation and database software.
- Avoid costly mistakes – learn to distinguish between hot spots and reflections, direct vs. indirect readings, moisture vs. air infiltration/exfiltration, and many more.
- Challenge yourself and learn during hands on IR Camera Applications Labs that simulate real-world home & building inspection infrared applications.

### **Certification**

The learning objectives, contact hours, and written exam of Home Performance Thermography Certification course are based on the requirements utilized to satisfy the Standards of Practice for ASHI, TAREI, NAHI, CREIA, FABI and Home Inspection/Performance Professionals throughout the United States. As such, this course is suitable for use by your employer to recognize you and market both your knowledge and the company's inspection services as complying with the written standards of practice and knowledge requirements for a Certified Residential Thermographer. **This class is not an ASNT NDT Level I Thermography course.**

# Certified Residential Thermography Course



## DAY 1 Understanding Thermal Imaging

### MORNING SESSION

Registration & Introduction (30)

Course Overview (15)

Infrared Theory (45)

- + Types of Detectors
- Resolution and Sensitivity
- Electromagnetic Wavelengths

Understanding Heat Flow (45)

- How Energy Travels
- Conduction/Convection/Radiation
- Steady State Considerations

Understanding Emissivity (45)

- How it effects your Image
- + How it effects your temperature
- Apparent vs. Actual Temperatures

Accurate Temperature Measurements (45)

- Camera variables
- + Spot size ratios
- Understanding E+T+R
- Limitations

### AFTERNOON SESSION

Infrared Camera Breakout

Getting to know your imager (30)

- Power Supplies/Chargers
- FOV Considerations
- Manual vs. Automatic

Camera controls (30)

- Focus/Range/Distance
- Saving Quality Images

Camera Care (15)

- Cleaning
- Lens Care

Hands on Camera Labs (120)

- Emissivity Demonstration
- High Temperature concerns
- Moisture Inspections
- Spot Size Measurements

Other Test Equipment (30)

- Moisture Meters
- Video Borescopes
- Amp Meters

(\*\*) = Minutes per session

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## DAY 2 Thermal Imaging Applications

### MORNING SESSION

Review & Questions from Day 1 (15)

Moisture Inspections (30)

- Roof Leaks
- Walls and Windows
- Basement

Winter Applications (30)

- Cold climate Inspections

Summer Applications (30)

- Warm Climate Inspections

Inspection Conditions Required (30)

- Delta T required
- Environmental Data

Electrical Inspections (30)

- Safety Concerns
- Overloaded Circuits vs. loose

Ceilings/Walls/Basements (30)

- Slope vs. Flat considerations
- Stucco/drywall/paneling

Window Deficiencies (30)

- Air Infiltration identification
- Argon Seal leaks

### AFTERNOON SESSION

Pest Infestations (20)

- Termites
- Bees
- Critters

Appliance Documentation (20)

- Water Heaters
- Range/Cooktops
- Refrigerators AC

Unit Inspections (20)

- Condensers
- Duct Temperatures
- Compressor Leaks

Chimney Inspections (15)

- Crack Identification

Radiant Floors (15)

- Proper flow Hands on

Equipment Use (60)

- Quality Images
- Other important information

Loading Images to PC (15)

Creating Reports / Hard Copy Data (15)

Course Exam (25 Questions) (45)

Course Critique (30)

**This is a hands on training.**

**Camera's will be provided for training, OR bring your own camera if you have one!**

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## Presenter BIO:

**Bill Fabian is Vice President of Training and Sales for Monroe Infrared.** He's been providing thermography training, infrared camera selection support, and IR inspection services to Home Inspectors, Energy Auditors, Building Science and Manufacturing Maintenance/PDM Industry Professionals since 1986. He works closely with clients and programs of all sizes to ensure the right equipment and training is provided to maximize the value added through infrared imaging and to increase the ROI achieved. Bill has delivered numerous presentations, papers and classes on the use of thermal imaging for home inspectors, energy and electrical/mechanical applications to a wide variety of professional business segments. He develops and teaches specialized infrared training courses for Monroe Infrared to a broad array of audiences all across the United States.

Bill was the primary architect in the development of Monroe Infrared's Certified Residential Thermography Course for Home Inspectors. He resides with his family north of Detroit, MI.

**Class presented by William (Bill) Fabian**

**September 20-21 Capital Plaza Hotel, 405 Wilkinson Blvd, Frankfort, KY. 502-227-5100.**

**Cost to Expand YOUR Knowledge Base and Skill Set**

**REGISTER NOW**



**IR Training & Certification For Residential Inspection Professionals- Price Reduced to \$495!**

~~\$595.00~~

**\$495.00**

You save \$100.00 (17%)!

1 Add to Cart

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