



INFRARED TRAINING INSTITUTE
INFRARED CAMERA AND THERMAL TRAINING SOLUTIONS



LEVEL 2 INFRARED THERMOGRAPHY CERTIFICATION

Level 2 Thermography elevates expertise, delving into advanced topics like active infrared applications. Acquire proficiency in quantifying findings' impact through ITI's esteemed professional training.

ITI offers a 4-day course beginning at 8:00 AM and ending at 4:00 PM

DAY 1 INTRODUCTION TO INFRARED THERMOGRAPHY

Intermediate Thermal Physics

Matter, Energy, Heat, & Temperature

Modes of Heat Transfer & States of Matter

Atomic Structure & Bonding of Molecules

The Kinetic Molecular Theory

Hands-on Training with Equipment

FOR MORE INFORMATION CALL (409) 861-0788

Our courses follow the ASNT recommended curriculum and focus on the evaluation of materials/composites using nondestructive thermographic techniques and principles.



Scan QRC code to fill out online form.

BENEFITS



Our instructors teach by conducting audio, visual, and kinetic presentations.



Gain an understanding of thermal equipment and nondestructive testing.



Class size is limited to ensure the best level of interaction between instructors and students.



Understand the techniques and limitations of science for specific infrared applications



FOR MORE INFORMATION CALL (409) 861-0788

DAY 2 BASIC HEAT TRANSFER THEORY

- Principles of Radiometry & Infrared Spectrum
 - Spectral Emittance of Real Surface
 - Semi-transparent Windows & Filters
- Temperature Reference Sources & Emitters
 - Emissivity Concepts & Calculations
 - Performance of Emissivity Testing

DAY 3 THERMAL IMAGING

- Planck's Law/Curves
 - Reflection and Transmittance Concepts
- Resolution Test & Measurement Calculations
 - Resolution vs Lens & Distance
- Thermal Measurement Quantification
 - Hands-on Training with Equipment & Software

DAY 4 THERMAL APPLICATIONS

- Temperature Profiles & Image Subtraction
 - Special Equipment for Active Techniques
 - Hot or Cold Fluid Energy Sources
- Heat Lamp, Flash Lamp, & Laser Energy Sources
 - Report Generation & Documentation
 - Tracking Temperature Changes Over Time

- Energy Loss and Mass-transfer Heat Exchange
 - Active & Filtered Applications
- Hands-on Training with Equipment & Software
 - Questions & Test Preparation
 - Level 1 Certification Exam

CONTACT

You may reach a representative by phone Monday – Friday 8:00 AM to 5:00 PM CST
Phone: 1 (866) 861-0788 | Fax: (409) 866-7229 | www.infraredtraininginstitute.com
855 West Cardinal Drive, Beaumont, Texas 77705