



INFRARED
TRAINING
CENTER



2024 COURSE CATALOG

GET CERTIFIED

Welcome to the Infrared Training Center—your resource for enhancing your thermal imaging skills, building your thermography business, and ensuring your credibility with customers.

Infrared cameras, or “thermal imagers,” allow you to detect a wide range of equipment and system issues across a variety of industries. You can use thermal imagers for everything from troubleshooting electrical and mechanical components to diagnosing building envelope concerns. Specialized thermal cameras can help you detect dangerous gas leaks or contribute data that’s valuable for research and development. Regardless of the application, thermal imaging allows you to catch hidden problems and fix them before they cause expensive delays, injury to personnel, or unscheduled downtime.

In order to get the most out of a thermal imager, you need an operator with the knowledge, skill, and experience to use the technology correctly. That’s where the Infrared Training Center can help! Our training courses include comprehensive, hands-on labs and workshops designed to engage and challenge the student. Infrared Training Center instructors use live demonstrations and in-class activities to recreate real-world situations, so students can see direct applications and learn how to get the most out of their thermal imager.

Proper training ensures the success of your program by making certain scans are conducted in an efficient and accurate manner while emphasizing the production of clear, high-quality inspection reports. The Infrared Training Center has a proven track record and methodology for creating confident, enthusiastic, and well-versed thermographers. We look forward to sharing our knowledge with you!

See you in class,

John F. Keane
Global Director



World-class training from the thermography pros

Why Should You Get Certified with the Infrared Training Center?

Increase credibility, enhance your career, and build your business

The Infrared Training Center is the world's largest and leading infrared training and certification provider. We're the only organization certified to the ISO 9001:2000 Quality Management Standard – that's why an Infrared Training Center certification is considered the gold-standard qualification among industry professionals. We offer a vast array of application-focused courses, from beginner to expert, so students never have to settle for a course that only meets some of their needs. These courses cover applications such as electrical and mechanical systems, building and roof applications, optical gas imaging, furnace inspection, and research and development.

The Infrared Training Center hosts more than 400 scheduled training dates at a variety of locations around the world. We also offer onsite training and custom-designed classes with your needs in mind, allowing a more personalized learning experience at your location. Plus, you can avoid the cost of travel, lodging, and meals, while taking advantage of the opportunity to train on the equipment in your facility for an on-the-job learning experience.

We offer IR training, certification, and recertification in all aspects of thermography, including:

- Level I, II, and III courses
- Specialized instruction in building diagnostics, roofing, electrical, mechanical, research and science, and optical gas imaging
- Online courses that cover the basics of thermal camera operation and reporting software

As a global organization supporting a range of industries and applications, we acknowledge and adhere to the standards provided by the American Society of Non-Destructive Testing (ASNT), the British Institute of Non-Destructive Testing (BINDT), and the International Standards Organization (ISO). Specifically, we follow ASNT SNT-TC-1A, CP-105, and ISO 18436 for North American courses, BINDT CMGEN appB for United Kingdom classes, and ISO 18436 & 9712 for courses conducted in Latin America, Europe, and Asia. Our understanding of the importance of a quality education and our compliance with common NDT standards are just some of the reasons why Infrared Training Center certifications are recognized globally as the industry gold-standard.

Onsite Training

Do you have a large group that requires thermography training? Our onsite training courses are the best way to accommodate a large group on a limited budget. Our instructors will travel directly to your facility, which not only limits travel costs but keeps your staff onsite; reducing downtime and short staff issues. Not to mention instruction is tailored to your specific application! Staff will benefit from hands-on learning that addresses the scenarios and equipment they are responsible for daily. Contact us today for a free phone consultation and quote!

Certification Benefits

- Improve ability to interpret thermal images
- Understand the application of post-processing software for image analysis and report generation purposes
- Avoid costly mistakes by discovering how to distinguish between real hot spots and false positives
- Meet the certification, training, and quality standards required by many employers, customers, and insurance providers



Onsite Training Advantages

- Save money by eliminating costly travel expenses including airfare, hotel and meals
- Lower the per-person standard registration price (groups of 10+)
- Convenience of training at your local facility with the global leader in IR thermography certification
- Incorporate hands-on field work using your equipment
- Customize the training material to address specific applications or needs
- Improve the overall student/teacher ratio for a more personalized learning experience

ONLINE TRAINING

Fully Online Courses

Convenience without sacrificing quality

The Infrared Training Center's new Online Thermography Certification program places you front-and-center in a virtual classroom which means you no longer have to travel to get certified. That's because online training eliminates secondary costs typically associated with traditional in-person courses including transportation, hotel, meals and more. All of this while offering you the most flexible and convenient certification options to date.

What makes our online training program unique? It features live, interactive instruction through ZOOM video conferencing services. This isn't just voice-over-PowerPoint where you're learning by yourself, isolated from your instructor and your peers. Participants can interact with both trainers and their fellow thermographers in real-time, just as you can in a typical face-to-face training class. And while there is some self-directed content, most of the class is delivered live with engaging demonstrations, group discussions, and more.

Registering for online training is easy with numerous dates and locations available that will accommodate even the busiest of schedules. And it's not just for individuals. For larger groups these online courses are available as an onsite option too. Contact the Infrared Training Center for a quote to schedule a private class exclusively for your employees that's tailored to your individual training and certification needs.



World-class training from the thermography pros

Programs/Courses	Clock Hours	Tuition (USD)	Prerequisites	Continuing Education Credits (CEUs)
Level I Thermography Certification	32	\$2,300	None	NETA, 16 CEUs

Learn everything you need to get started as an infrared thermographer the right way with our Level I certification course, Fundamentals of Infrared Thermography. In this certification course, you'll learn how infrared cameras make and capture images and how to take accurate temperature measurements with an infrared camera, as well as all of the foundational science you'll need to get the most out of your camera.

Level II Thermography Certification	32	\$2,300	Level I Certification	NETA, 16 CEUs
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Level II thermography will take you deeper into the science that influences how infrared images look and how to get more accurate measurements than ever. You will also learn the practical tools of the trade that will allow you to analyze your images and understand what they are telling you, given the equipment you are inspecting and the conditions you are working in.

Level III Thermography Certification	32	\$2,300	Level II Certification	NETA, 16 CEUs
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Level III Master Thermographer certification training is for Level II thermography professionals who are seeking to become infrared experts in their field. Learn the most advanced thermographic inspection and application techniques and proper camera selection and prepare to run your own IR inspection team through discussions of infrared program management, calculating program ROI, what standards to follow, how to develop inspection procedures, and much more.

OGI I - Optical Gas Imaging Certification	24	\$2,300	None	
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Learn how to set up and operate optical gas imaging (OGI) cameras to ensure maximum proficiency. This course includes instruction for optimally adjusting OGI cameras for varying field conditions to find gas leaks as well as the environmental parameters at which gas leaks are most easily found, somewhat easy to find, and difficult to find. With this, students are able to ensure their OGI camera and inspections meet a wide variety of operating envelope challenges, with the ultimate goal of meeting any required work practices or verification checks of the technology

OGI II - Advanced Optical Gas Imaging Certification	24	\$2,300	OGI I Certification	
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OGI II expands on the material presented in the introductory course, providing students with additional details about infrared detectors, techniques to enhance the detection of small gas leaks, and methods to size gas plumes. This course focuses on quantification and measurement for advanced users seeking to take their LDAR program to the next level. Attendees who successfully complete the course will receive an OGI II Advanced Optical Gas Imaging Certification.

Level I Electrical Thermography Certification	32	\$2,300	None	NETA, 16 CEUs
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As a Level I Electrical Certified Thermographer, you'll learn how infrared cameras make and capture images, how to make accurate temperature measurements with an infrared camera, and all of the foundational science you'll need to get the most out of your camera. Plus, you'll discover how to conduct safe thermographic electrical inspections in a variety of common use cases and create basic reports so you can share your findings with team members, customers, and other stakeholders.

Level II Electrical Thermography Certification	32	\$2,300	Level I Certification	NETA, 16 CEUs
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The Level II Electrical Infrared Thermography Certification course is designed for practicing Level I and Level I electrical thermographers who are interested strengthening their thermal imaging skills for condition monitoring and predictive maintenance with a specific emphasis on indoor and outdoor electrical applications.

COURSE DETAILS

Programs/Courses	Clock Hours	Tuition (USD)	Prerequisites	Continuing Education Credits (CEUs)
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Level I sUAS Thermography Certification	32	\$2,300	None	
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The sUAS Level I Thermography Certification course is geared to the individual or corporation wanting focused training on aerial IR inspections and applications. This four-day course is designed for the sUAS pilot who needs the background, skills, and knowledge to properly capture and interpret thermal images from the air. Topics include infrared science, popular applications, sUAS safety, and how to select the proper camera and lens combination for your application's needs.

Level I sUAS Public Safety Thermography Certification	32	\$2,300	None	
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Our sUAS Level I Public Safety Thermography Certification training course is a four-day class designed specifically to provide public safety professionals the theoretical and practical foundations necessary for effective law enforcement, fire, HAZMAT, search and rescue, and emergency management operations with an sUAS.

Level II sUAS Thermography Certification	32	\$2,300	Level I sUAS	
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Level II sUAS Thermography is designed for Level I sUAS certified professionals seeking to broaden their knowledge of infrared by using Unmanned Aerial Vehicles to collect thermography data. This course focuses on strengthening and improving your image interpretation and analytical skills by providing instruction in application mission execution and methods of capturing and analyzing analytical data and creating a deliverable that is critical to your client.

Level I Furnace Inspection Thermography Certification	32	\$2,300	None	
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Level I Furnace Inspection Thermography is a specialized certification training course for professionals using infrared to inspect heaters, boilers, and furnaces. Learn how to evaluate pipe temperature, potential coking/scaling, physical damage, and burner quality—quickly and accurately. This course addresses camera setup and operation, heat transfer and physics, furnace applications, and temperature measurements as well as inspection methods and analysis methods.

Level I Building Investigations Thermography Certification	32	\$2,300	None	Building Performance Institute, 16 CEUs
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Level I Building Investigations Thermography gives students the depth of knowledge necessary to perform IR investigations on single or multifamily dwellings so they can identify envelope, moisture, electrical, and mechanical issues. Using an IR camera, building inspectors can identify thermal anomalies that indicate missing insulation and insulation defects due to damage, moisture, and improper installation. An IR survey can also provide an indication of moisture or wetness as well as air infiltration and exfiltration.

In Person or Online Consulting Services	Tuition
Virtual Application Consulting 4-Hours (Remote)	\$1,150
Virtual Application Consulting 8-Hours (Remote)	\$2,200
Onsite Application Consulting 8-Hours*	\$2,500 + Travel Expenses

*Per 8 hour day, not including travel expenses

World-class training from the thermography pros

Programs/Courses	Clock Hours	Tuition (USD)	Prerequisites	Continuing Education Credits (CEUs)
IR Electrical Inspections	16	\$1,200.00	None	

The IR Electrical Inspection course offers fundamental skills training for new thermographers interested in electrical systems. Learn the basics of infrared theory, camera operation, and image interpretation to jump-start your preventative maintenance program.

IR Mechanical Inspections	16	\$1,200.00	None	
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The IR Mechanical Inspection course offer fundamental skills training for new thermographers interested in mechanical systems. Learn the basics of infrared theory, camera operation, and image interpretation to jump-start your preventative maintenance program.

IR Roof Inspections	16	\$1,200.00	None	
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IR roof inspection training is tailored to infrared camera users or practicing thermographers who desire focused training on roof moisture-detection and roof inspection surveys for low-slope and built-up roofs. This two-day training course discusses roofing types, typical problems, and how to perform IR inspections to detect roof moisture. The course includes details on the thermal imaging equipment needed, procedures, and safety issues. It also covers limitations based on roof construction, insulation type, weather conditions, how to prepare infrared roof inspection reports, survey follow-ups, and tips for marketing and selling your services. Please note that this course does not cover inspections on shingled roofs.

Optical Gas Imaging Essentials	6	\$599.00	None	
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Learn the basics of OGI camera operation and the settings common to most gas imaging cameras in this Essentials training course. Students will learn the importance of focus, thermal tuning, resolution, and background for acquiring good data.

Thermal Imaging Camera Essentials	6	\$499.00	None	
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Get the most out of your thermal imager through this camera operation course. Instructors will discuss basic features and settings common to many types of cameras, as well as explain the importance of focus, thermal tuning, range, and spatial resolution for acquiring good data.

Thermal Studio Software Training—Introductory	6	\$499.00	None	
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This course offers introductory post-processing software training specific to the use of the FLIR Thermal Studio Suite for basic thermal analysis and reporting.

Thermal Studio Software Training—Advanced	6	\$499.00	None	
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For those already familiar with post-processing software, this advanced training course dives into the use of the FLIR Thermal Studio Suite for creating personalized reports and advanced analysis including conditional formatting, live mode, and routing components.

Recertification Courses	Hours	Tuition	Prerequisites
Online Level I Refresher & Recertification Exam	4	\$849.00	Must be currently Level I Certified
Online Level II Recertification Exam	1	\$849.00	Must be currently Level II Certified
Online Level III Recertification Exam	1	\$849.00	Must be currently Level III Certified
Online Level I Building Investigations Recertification Exam	1	\$849.00	Must be currently Level I Certified
Online OGI I Recertification Exam	1	\$849.00	Must be currently OGI I Certified
Online Level I Electrical Recertification Exam	1	\$849.00	Must be currently Level I Electrical Certified
Online Level I sUAS Recertification Exam	1	\$849.00	Must be currently Level I sUAS Certified
Online Level I Furnace Inspection Recertification Exam	1	\$849.00	Must be Level I Furnace Certified
Online Level II Electrical Recertification Exam	1	\$849.00	Must be Level II Electrical Certified

INFRARED TRAINING CENTER POLICIES

Policies

GRADING POLICY

Our certification-level classes require the student to pass a written or online exam with a minimum grade of 75%. Students who do not pass the test on the first try will be given additional guidance by the instructor and allowed to retake the exam. If a student does not pass the retest, the student may be asked to attend the class again and retake the test.

CANCELLATION/WITHDRAWAL POLICY

If a student cancels or withdraws registration on or before the first day of class, the Infrared Training Center will provide a full refund. All refunds shall be paid within 30 days upon written notification from a student of cancellation or withdrawal. Students receiving benefits from federal programs shall be subject to federal refund policies, rules, and regulations.

Other Refunds: The Infrared Training Center shall provide a student with a partial refund of monies paid within 30 days if: (1) A student who withdraws or is dismissed before 50% of the instruction period shall receive a pro-rata refund (2) A student who withdraws or is dismissed after more than 50% of the instruction period shall receive no refund.

Notice of Withdrawal: The Infrared Training Center shall require that notice of withdrawal be in writing but shall not require a specific manner of delivery.

TRANSFER CREDIT POLICY

Due to the short length of the Infrared Training Center's classes, we are unable to provide or accept transfer credits for partial or incomplete classes students have attended. If a student has obtained an Infrared Imaging Certification with another provider and would like to take a higher-level certification course with the Infrared Training Center, the student may need to provide proof of current, active certification level to the Infrared Training Center for approval prior to attending a higher level certification.

For students that complete a certification class with the Infrared Training Center, we can provide you with a copy of your certification paperwork if you are looking to take higher level certification classes with another infrared certification provider. You can contact the Infrared Training Center directly to obtain your certification paperwork.

STUDENT CONDUCT AND CONDITIONS FOR DISMISSAL POLICY

Students will be expected to behave in a professional and courteous manner during training. Our instructors are tasked with maintaining order during class. Therefore, instructors, in fulfilling their professional and contractual obligations, may dismiss students from courses consistent with the Infrared Training Center policies.

The training process requires some level of order to enable interactive learning. Disorder or disruption of class (such as verbal abuse or threats, physical assault, vandalism of Infrared Training Center property, intoxication, etc.) will result in dismissal from class. A student may apply to retake the class in the future, but acceptance of reapplication will be solely at the Infrared Training Center's discretion.

World-class training from the thermography pros

STUDENT GRIEVANCE POLICY

The person filing the grievance must be the subject of alleged unfair treatment that is related to his or her status as a student or program participant. A grievance cannot be filed on behalf of another person.

Grievances involving academic issues are limited to final course grades and satisfactory completion of instructional program requirements. If there is incorrect information on exams or in training manuals which results in a student performing poorly during class, the Curriculum Manager must be notified immediately, and the student will be allowed to retake the portion of the class that hampered his or her ability to learn correctly.

For grievances that are not based on academic issues, the student must submit a complaint in writing to the Infrared Training Center. The center manager and curriculum manager will review the complaint and determine what the appropriate course of action will be for an amicable resolution of the grievance. If the student is not satisfied with the proposed resolution, the student can appeal to the Infrared Training Center director for reconsideration. If after reconsideration there is no agreement, the student can appeal directly to:

New Hampshire Department of Education

Division of Higher of Education- Higher Education Commission
Office of Career School Licensing
101 Pleasant Street
Concord, NH 03301

PROGRAM COURSE OUTCOMES

The Infrared Training Center is a training facility that instructs students who are already using the technology. More than 90% of the students who attend our trainings work in jobs related to the technology. The remaining 10% are students who plan to add thermal imaging to their daily work routine.

For our certification-level classes, students are required to take a final exam at the end of the course to demonstrate the knowledge they have acquired. More than 95% of our students will successfully complete the exam on their first try. Our instructors will work with those students who do not pass and allow them to retake the exam. Once students have passed the exam, they have completed the course and are certified by the Infrared Training Center for a period of five years.

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