

Level 1 – Fundamentals of Thermography Certification

Our Fundamentals of Thermography, Level I Certification course is for the new thermographer and focuses on how infrared is utilized for a variety of applications. Learn the essentials of camera operation, heat transfer and report writing. Those who successfully complete the course requirements will receive a Level I Infrared Thermography Certification from ITC.

Infrared Course Benefits

- Review the best practices of thermography including factors that impact measurement accuracy, the required conditions for a successful inspection and important safety considerations.
- Analyze thermal images, prioritize anomalies, and create simple reports using the latest infrared inspection software.
- Discover how to take simple temperature measurements of targets by learning the fundamentals of emissivity and reflectivity.
- Learn the core concepts of heat transfer and how it impacts both imaging and temperature measurement.
- Develop IR camera operation skills that are essential for collecting quality data with your thermal imager.
- Learn the fundamentals of thermal imaging for reliability maintenance, building envelope analysis and roof moisture applications. No previous experience necessary!
- Gain experience with hands-on exercises that build your foundational knowledge of camera operation while re-enforcing the concepts of heat transfer that are taught throughout the week.

Required Course Materials:

- **IR Camera**- Students will be required to complete various labs & exercises throughout the duration of the course.
- **Laptop**- Certification Examinations will be administered electronically. Tablets are also acceptable.
- **IR Reporting Software**- Please have software installed prior to class. Software can be used to assist with many of the camera lab exercises
- **Accessories**-Extra Batteries, charger cords, etc.

Please bring an IR camera to class if you have one. Cameras are not provided during the training course. If you do not have access to a camera you can rent one through VIBRA by calling **(787) 283-7500**. If you are attending the course with a colleague or friend, you may share a camera however we recommend no more than three students per IR camera.





Certification

No previous thermography experience or IR camera is required.

Students who complete all training course requirements receive a Level I Infrared Thermography Certification and a wallet ID card.

Level I learning objectives, contact hours, and written exam are based on requirements outlined by ANSI/ASNT CP-105 and CP-189 of the American Society for Non-Destructive Testing.

ITC Certification is the gold standard qualification within the thermography industry and exceeds the requirements of international standards.

