

Volume 13 Issue 8 - August 2024

Director's Message



It is said that, "Possession is nine tenths of the law." When it comes to infrared data, ownership is often not that simple.

Thermograms and hardcopy reports are commonly produced for infrared inspections. Like proud parents sharing photographs of children, thermographers frequently share images, data, and reports with others. During these demonstrations, it is not uncommon to hear thermographers refer to this work product as 'my images' or 'my reports'. For the purposes of casual conversation, referring to work product in the possessive sense is acceptable; however, the actual owner of such data is often someone else.

Under a principle known as 'Shop Rule', data produced by thermographers as part of their duties as an employee belongs to their employer. In general, Shop Rule will always apply unless there is a written agreement to the contrary. For thermographers who work as consultants, a principle known as 'Works for Hire' may apply. Under this principle, any work product generated belongs to the client and not the thermographer.

Thermographers who work as consultants should be mindful that contracts and written agreements often have 'Works for Hire' clauses. These clauses may appear in the body of a contract or purchase order or be incorporated by reference. Thermographers who wish to retain ownership should address this issue prior to the commencement of any work.

Prior to using infrared data for any purpose other than its original intent, always obtain permission to do so. Employers and clients are frequently willing to grant permission to use imagery provided it does not divulge a trade secret or jeopardize confidential information.

Offering Infrared Inspection Services

The ever increasing awareness of thermography causes many to consider offering infrared inspection services through new or existing business ventures. In general, the time has never been better than the



Upcoming Courses

[Online Distance Learning](#)

[Level I Certified Infrared Thermographer®](#)

- Aug 5 - 9 Colorado Springs
- Aug 5 - 9 Quezon City
- Aug 12 - 16 Calgary
- Aug 12 - 16 Gold Coast
- Aug 12 - 15 Melbourne
- Aug 14 - 15 Melbourne *
- Aug 18 - 23 Cheyenne
- Aug 19 - 22 San Francisco
- Aug 12 - 22 San Francisco *
- Sep 2 - 5 Sydney
- Sep 4 - 5 Sydney *
- Sep 9 - 13 Kuala Lumpur
- Sep 9 - 13 Trinidad
- Sep 16 - 19 Brisbane
- Sep 18 - 19 Brisbane *
- Sep 16 - 20 Quezon City
- Sep 16 - 20 Albuquerque
- Sep 23 - 27 Boise
- Sep 23 - 26 Adelaide
- Sep 25 - 26 Adelaide *
- Sep 30 - Oct 3 Perth
- Oct 2 - 3 Perth *
- Oct 7 - 10 West Windsor
- Oct 7 - 11 San Diego
- Oct 7 - 11 Gold Coast
- Oct 14 - 18 Kuala Lumpur

present for starting an infrared consulting business or adding infrared inspection services to an existing company's services.

The advent of lower cost technology has increased the number of commercial thermal imagers being offered while reducing the cost for same. This, combined with a greater awareness of the technology, has served to increase the demand for infrared inspection services.

During the past two years, the lower cost for infrared imagers and software has been an inducement for many large companies to purchase equipment. It has also attracted a number of entrepreneurs to the industry. Despite the fact that infrared equipment has become less expensive and the number of infrared consultants has increased, there remains a shortage of experienced, competent thermographers. From all market indications, this shortage of qualified thermographers should provide favorable business opportunities for the next several years.

Prior to offering infrared inspection services, one should consider the following for your intended market area:

- Current demand for infrared inspection services
- Present competitive offerings and pricing
- Company's strengths and current services
- Types of infrared inspections to be offered
- How new services will be marketed

Once a decision has been made to offer infrared inspection services, thermographers should obtain quality training and certification before they purchase infrared imaging equipment.

[More Information](#)

Course Materials Licensing



Infraspection Institute's Course Materials Licensing program provides a unique opportunity for experienced thermographers to bring quality training to their clients without having to develop their own training materials.

Licensees may elect to teach applications or certification courses. Best of all, our program provides all training materials, course manuals, instructor training, and support.

Benefits of our program:

- Expand your services and increase profits
- Enhance your credibility
- Provide world-class thermography training with minimal investment

Infraspection Institute's course materials licensing is open to individuals, companies, and educational institutions. It is perfect for those seeking to provide green technology education as well as companies seeking to educate a sizeable thermography team.

[More Information](#)

Using Tmax Corrected to

- Oct 14 - 18 Quezon City
- Oct 21 - 25 Santa Cruz
- Oct 21 - 25 Missauga
- Oct 22 - 25 Edmonton
- Oct 28 - 31 Melbourne
- Oct 29 - Nov 1 Saskatoon

* Flexible Learning

[Level II Certified Infrared Thermographer®](#)

- Sep 16 - 19 West Windsor
- Sep 16 - 20 Trinidad
- Oct 14 - 18 Kuala Lumpur
- Oct 28 - 31 Melbourne
- Dec 9 - 13 Trinidad

[Level III Certified Infrared Thermographer®](#)

- Sep 23 - 25 West Windsor
- Nov 18 - 20 Melbourne

[Full 2024 Schedule](#)

Upcoming Conferences

Infraspection Institute invite you to see us at the following upcoming conferences. Be sure to stop by and say Hello!

[Vibration Institute](#)

August 7 - 9, 2024
Covington, KY

[SMRP Conference](#)

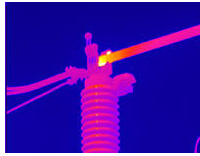
October 7 - 10, 2024
Orlando, FL

[IR/INFO Conference](#)

January 19 - 22, 2025
Orlando, FL

Prioritize Electrical Exceptions

Thermographers have long used temperature differentials or Delta T measurements as a means of prioritizing electrical and mechanical exceptions. Typically, Delta T values are calculated by comparing the temperature of an exception to similar components under similar load or to ambient air temperature. Although they work well in many circumstances, Delta T readings are not applicable for components that do not qualitatively manifest themselves as an exception.



An alternative to Delta T calculations is a formula known as Tmax Corrected. This formula is based upon an IEEE formula and calculates pass/fail criteria based upon several factors including equipment type, ambient air temperature, and circuit load.

Although requiring a little more time to apply than Delta T calculations, Tmax Corrected allows one to determine whether a component of interest is running within specification for any load or ambient temperature. Tmax Corrected is especially useful for equipment that is not manifesting itself as an exception. Tmax Corrected can be an invaluable tool for those who perform infrared inspections as part of commissioning studies or use thermography for acceptance testing of new installations, repairs, or retrofits.

Proper use of the Tmax Corrected formula is just one of the many topics covered in Infraspection Institute's Level II training courses. The proper application of Tmax Corrected may also be found in the [Standard for Infrared Inspection of Electrical Systems and Rotating Equipment](#).

[More Information](#)

Attend IR/INFO 2025 and Get Discounted Training



In celebration of IR/INFO's 35th anniversary, Infraspection Institute are pleased to announce several special offers combining the world's most respected infrared training and certification program with the industry's original technical conference.

Several packages are available featuring discounts on Level I, II, and III Infraspection Institute Certified Infrared Thermographer® training courses and TI Reporter™ software. Discounted group rates are available for four or more persons.

[More Information](#)

Go for Thermography's Gold Medal

[NETA PowerTest Conference](#)

March 11 - 15, 2025
Orlando, FL

[NFMT](#)

March 25 - 27, 2025
Baltimore, MD

Links of Interest

[IRINFO.ORG](#)

[TI-Reporter.com](#)

[NORMI.TV](#)

[A-Rent](#)



[Become an Infraspection Institute Master Thermographer®](#)

