

Volume 13 Issue 1 - January 2024

Director's Message



“Begin with the end in mind” is a frequent quotation from Stephen Covey’s best selling book, *The 7 Habits of Highly Effective People*. Applying this principle can have a dramatic impact on many things including an infrared inspection program.

Prior to undertaking any task or project, it is important to have a clear understanding of what the final outcome should be. With this vision, thermographers are able to gauge the effectiveness of their efforts and can chart a course of action that leads directly to achieving their goals.

Building an infrared inspection program is like a construction project. You need to have a clear understanding of what you desire when construction is completed. When starting an infrared inspection program, decide what you want from your program. This is best done by asking yourself the following questions:

- What is the role of thermography – CBM, PdM, QA, or Condition Assessment?
- Which systems/equipment do I want to inspect?
- How will thermography improve operations – decrease unscheduled downtime, improve product quality, and reduce production losses?
- What data are available for measuring the program’s effectiveness?

Once these questions have been answered, one can begin to set up an infrared inspection program with necessary equipment, staff, and support personnel. By beginning with the end in mind, an infrared inspection program is more likely to succeed by providing value and producing measurable results.

Onsite Training

If you have four or more employees who need infrared training and certification, an on-site training class may be right for you. On-site training classes eliminate employee travel expenses and can be scheduled at your convenience. Best of all, on-site training can be customized to meet your company’s specific needs!



Since Infraspection Institute do not manufacture or sell infrared equipment, our courses are presented without marketing hype and

Upcoming Courses

[Online Distance Learning](#)

[Level I Certified Infrared Thermographer®](#)

- Jan 2 - 5 Vancouver
- Jan 8 - 12 Tucson
- Jan 9 - 12 Victoria
- Jan 22 - 26 Santa Barbara
- Jan 22 - 26 Quezon City
- Feb 5 - 9 Colorado Springs
- Feb 12 - 16 Quezon City
- Feb 19 - 22 West Windsor
- Feb 19 - 23 Kuala Lumpur
- Feb 26 - Mar 1 Long Beach
- Feb 26 - Mar 1 Halifax
- Feb 25 - Mar 1 Gold Coast
- Mar 4 - 8 Melbourne
- Mar 6 - 8 Melbourne *
- Mar 4 - 8 Boulder City
- Mar 5 - 8 Edmonton
- Mar 11 - 15 Quezon City
- Mar 12 - 15 Calgary
- Mar 18 - 22 Sydney
- Mar 20 - 22 Sydney *
- Mar 25 - 29 Honolulu

* Flexible Learning

[Level II Certified Infrared Thermographer®](#)

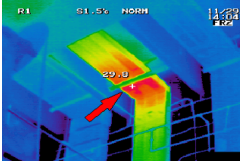
- Mar 11 - 14 West Windsor

are relevant to all brands of thermal imagers. Our training courses are taught using a combination of dynamic multi-media presentations, hands-on demonstrations, and one-on-one interaction with students, all of which are designed to maximize each student's learning experience.

Call us today for a free quotation and let us show you how affordable on-site training can be.

[More Information](#)

IR Inspections of Electrical Bus Ducts



Electrical bus ducts are used to distribute low voltage power throughout many industrial facilities. Modern bus ducts are unitized structures that contain insulated conductors within a steel casing. Individual sections of bus duct, each typically 10 feet long, are joined with bolted connections at the end of each bus section. Published industry standards recommend that bus duct connections be manually tightened every six months.

Even with regular tightening of bus duct connections, loose/deteriorated connections are difficult to detect. With the bus duct under load, a thermal imager can readily detect the temperature differentials associated with loose connections. Properly functioning bus ducts should exhibit no temperature differential in the vicinity of bolted connections. Because bus duct conductors are hidden from direct line of sight, any inexplicable temperature differentials should be investigated and corrected immediately. Disconnect switches and cable connections should be checked for thermal anomalies as well.

To ensure complete coverage, bus duct should be inspected from both sides of the duct along its entire length. Termination cabinets should also be inspected once the covers have been removed. Annual or semiannual infrared inspections performed by certified, experienced thermographers should be used to supplement regular bus duct maintenance.

Thermal image appears courtesy Thermal Technologies, Inc.

[More Information](#)

Attend IR/INFO 2024 and Get Discounted Training!

In celebration of IR/INFO's 34th anniversary, Infraspersion 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 Infraspersion Institute Certified Infrared Thermographer®

[Level III Certified Infrared Thermographer®](#)

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[Full 2024 Schedule](#)

Upcoming Conferences

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

[IR/INFO Conference](#)

January 14 - 17, 2024
Orlando, FL

[NETA PowerTest Conference](#)

February 26 - March 1, 2024
Dallas, TX

[NFMT](#)

March 12 - 14, 2024
Baltimore, MD

[SMRP Conference](#)

October 7 - 10, 2024
Orlando, FL

Links of Interest

[IRINFO.ORG](#)

[TI-Reporter.com](#)

[NORMI.TV](#)

[A-Rent](#)

training courses and TI Reporter™ software. Discounted group rates are available for four or more persons.

[More Information](#)

Your First Resolution for 2024



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

