



For Predictive
Maintenance
Technologies

EXPERIENCE – TRAINING – CERTIFICATION - SUPPORT

IPI Learning is a one stop training centre for a range of predictive maintenance technologies, including infrared thermography (IRT), infrared windows and electrical safety, airborne ultrasound, vibration, condition monitoring and alignment.

We provide a comprehensive range of training courses in predictive maintenance (PdM). From professional thermographers to in-house maintenance engineers, from pest inspectors to building Inspectors, our training courses are designed to provide you with the skills you need to perform your surveys with confidence, competence and most importantly, results.

For almost 20 years, IPI has provided expert predictive maintenance services, including training, sales support and professional consultancy to industry. Our trainers are all professionally certified, have decades of real world experience, and are qualified in training and assessment (TAE 40110) in Australia.

Our SIM Centre training facility has been purpose built as a state of the art learning facility, complete with real world simulations and the latest equipment to help prepare you for any situation you may encounter in the field.



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Vermont, VIC 3133
AUSTRALIA
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+61 (0)3 9872 6055 fax
www.infraredtraining.com.au



STUDENT SUPPORT

Provided through:

- Comprehensive websites
 - Infraredtraining.com.au
 - Cita.org.au

On-Site consulting & mentoring

- Program setup
- Program audits
- On-site training and mentoring

Free advice from expert thermographers

- Phone, email or web forum



IR Inspection of Electrical Systems

PROVIDING INDEPENDENT, UNBIASED INFORMATION

IR Inspection of Electrical Systems is a two-day theory and application course for the use of thermal imaging to locate and evaluate problems in electrical distribution systems

WHAT YOU WILL LEARN

- Students are trained to identify and document thermal patterns caused by improper design, workmanship or material failure.
- Attendees are encouraged to bring their own imager for individualized training or to learn how to use it more effectively.

training focused on real world challenges

KEY INFORMATION

Course Name	IR Inspection of Electrical Systems
Course Code	APPELEC
Entry Requirements	None
Study Mode	Open Enrolment, Distance Learning, Workplace
Course Length & Times	2 Days/16 Hours: Mon 8am – 5:00pm Tue 8am – 5:00pm
Locations	Melbourne, Sydney, Brisbane, Perth, Newcastle, Mackay
Trainers	Brenton Ward, Garry Ward
Assessment	n/a
Fees	\$1,495.00 + GST*

CERTIFICATION & RECOGNITION

This is a non-certification course that focuses on the specific applications listed. Course attendance may be applied to training requirements for thermographer certification.

THE TRAINING CENTRE

Our dedicated training facility and simulation centre provides the perfect environment for our unique hands-on learning style. Quite simply it's the best training you will get for performing what we call "real world thermography". IPI is independent of any equipment manufacturer and our classrooms are open to all brands of equipment. As such, our courses are presented without equipment bias or sales hype. All major brands of cameras are featured for training purposes and our instructors have years of experience to assist you on all makes and models of equipment.

FEES

Course tuition includes all course presentations, Course Reference Manual and Certificate of Completion. This is a non-certification course however course attendance may be applied to training requirements for thermographer certification.



TYPES OF TRAINING

There isn't one single type of training that is suitable for everyone. That's why we offer classroom, distance, and on-site learning, and refresher courses. Learn more about the types of training by visiting www.infraredtraining.com.au



FIND MORE INFORMATION

To find out more about course locations, learn about our trainers & facilities and get answers to some of our frequently asked questions visit www.infraredtraining.com.au Alternatively you can call or email us with any questions.



HOW TO REGISTER

To see course schedules and availability visit www.infraredtraining.com.au. You can then register directly on the training website or you can complete the registration form included in this information pack and return it by fax or email.

the world's best independent thermography certification

COURSE CONTENT

- 1. Basic Infrared Theory**
 - Heat transfer
 - Electromagnetic spectrum
 - Emissance, reflectance, and transmittance
 - Atmospheric transmission
 - IR wavebands and lens materials
- 2. Infrared Equipment**
 - Selection criteria
 - Range and level settings
 - Class demonstrations
 - Manufacturer equipment presentations (optional)
 - Hands-on use in class
- 3. Electrical System Inspections**
 - Theory and thermal signatures of problems
 - Airborne inspection of transmission lines
 - Ground-based inspection of distribution systems
 - Substation inspections
 - In-plant inspection of:
 - transformers
 - bus
 - switchgear
 - fuses
 - circuit breakers
 - cable trays
 - Standards for inspection
 - end user and thermographer responsibilities
 - safety practices
 - data gathering and report preparation
- 4. Implementing an IR Predictive Maintenance Program**
 - 9 steps to setting up a program
 - Integrating with other predictive technologies
 - Cross-verifying with other predictive technologies
 - Why programs fail, how they succeed

COURSE OVERVIEW

This course covers infrared theory, heat transfer concepts, equipment operation and selection, standards compliance, image analysis and report generation.



LOCATIONS

MELBOURNE

The Sim Centre Training Facility
12/634-644 Mitcham Rd
Vermont VIC 3132
PH: (03) 9872 5055

BRISBANE

Rendezvous Studio Hotel
Brisbane On George
103 George Street
Brisbane QLD 4000 Australia
PH: +61 (0)7 3221 6044

PERTH

Rendezvous Studio Hotel
Perth Central
24 Mount St
Perth WA 6000
PH: +61 (0)8 9481 0866

SYDNEY

Holiday Inn Potts Point
203 Victoria St
Sydney NSW 2011
PH: +61 (0)2 9368 4000

NEWCASTLE MACKAY

For dates and further
information on course
locations please visit
www.infraredtraining.com.au

TRAINING REGISTRATION FORM

(fields marked * are mandatory)



Trainee Details:

Full Name*: _____
Date of Birth: _____
Mobile Phone*: _____
Phone: _____
Email*: _____
Company Name: _____
Position: _____
Department: _____

I primarily use thermography for: (please circle one)

Electrical / Mechanical / Building / Other: _____

Street Address:

Street*: _____
City*: _____
State*: _____ Postcode*: _____
Country: _____

Postal Address: (if different from above)

Street: _____
City: _____
State: _____ Postcode: _____
Country: _____

Dietary Requirements: _____

Course Details:

Course Name: _____
Course Code*: _____
Start Date*: _____
Cost* (exGST): _____

Payment Details:

- Cheque made payable to *Industrial Precision Instruments Pty Ltd*
- Electronic transfer (invoice to be provided, confirmation issued on receipt of payment)
- VISA / MasterCard

Card Number: _____
EXP: _____ CVC: _____

Cardholder Name: _____

Cardholder Signature: _____

I hereby authorise Industrial Precision Instruments Pty Ltd to charge the above credit card for all charges relating to this training including GST.

Trainee Declaration:

- I understand that my registration will not be guaranteed until payment has been received in full by Industrial Precision Instruments Pty Ltd
- I have downloaded/received and agree to abide by IPI Learning's Training Policies. The Training Policies are available at www.infraredtraining.com.au or by emailing training@ipi-inst.com.au
- I have read and understand the Terms and Conditions of Registration. Terms & Conditions are available at www.infraredtraining.com.au or by emailing training@ipi-inst.com.au

Trainee Signature*: _____

Date*: _____