



- member of CAREL group



Category 1 Thermography Certification Course 5 day workshop

Gain an internationally recognised qualification in a rapidly growing industry.

November 2024 Course 11th - 15th November 2024, Auckland & Christchurch

Presented by

No matter what brand of camera you have, this course will teach you how to use your thermal imaging camera to it's full potential!



Testimonials

"The tutor helped me understand the theoretical and real world implementation of thermography. I learnt some real world examples and explanation and understood the theory behind thermography. I would be able to see the flow of energy."

Bruce Marshall, Feisst Electrical

"The course helped me understand the complex information of thermography and what can be achieved. I would be able to actually use the camera and apply the information to electrical."

Alice Wright

To get the most out of the hands on workshops, if available please bring your camera with you. **Don't have a camera?** Eurotec can provide cameras for the duration of the course.



Category 1 Thermography Certification Course Registration Form

Name:	Compar	ıy:	
Address:			Post Code:
Phone: (Work)	(Mob)	Email:	

Fees:

\$2,980.00 + GST per attendee. Payment or order number required on receipt of registration. (Morning Tea, Lunch and Afternoon Tea are provided throughout the course)

Attendees (Please print – Name as to appear in Certificate):

Name	Phone	Email

Payment options please choose one:

	Order Number:		
Trading Account			
Direct Credit 2*	Account No: 02-0256-0169221-00		
Credit Card Num	er VISA or MASTERCARD		
1 [*] 30 day trading a	Exp Date		
Name on Card: _	Sig	gnature:	
Course Dates: Locations:	11th -15th November, 2024 Eurotec Head Office, Auckland: 750C Great South Road, Penrose		
	Eurotec Christchurch: 30A Carlyle Street, Sydenham.		

Time: 9am to 5pm (Mon-Thurs), Half Day Friday.

Note: Our course tutor will conduct the course via Microsoft teams, with Eurotec qualified thermographers managing the class and assisting with practical lessons.

Email form to: Tom Aldridge **taldridge@eurotec.co.nz** Payment or order number required on receipt of registration)

Payment is required in advance. Course fee is non-refundable, but is transferrable to another course date.



5 Day Category 1 Certification/Operator Course Outline



This course meets or exceeds the recommended training curriculum of ASNT-TC-1A for Category 1 Thermal/Infrared Certification as well as ISO 18436-7. The course is a good mixture of audio, visual, and kinetic presentation material.

The hands-on workshops ensure that the students leave the course with confidence in their ability to operate their IR equipment. Certification will be granted to students who successfully complete the written requirements. Class size is limited to give maximum interaction between instructor and students.

Introduction to Infrared Thermography and predictive maintenance

Basic Thermal Physics Introduction to Temperature Matter, Energy, Temperature Temperature scales Introduction to Heat

Basic Heat Transfer Theory

Thermodynamics Change of State Specific Heat Conduction, Convection, Radiation

Electromagnetic Radiation

The Electromagnetic Spectrum Infrared Explained Introduction to Planck's Curves

The Infrared Image How an Infrared Image is Produced

Qualitative Thermography Operating Your Equipment

How Your Camera Works Detectors-Focal Plane Arrays (FPA) 3 Main Controls: Focus, Level, Span Getting a Good Image Workshop

Infrared Radiation Physics

The Stephan Boltzmann Law Wein's Law Planck's Law Emission, Reflection, Transmission Emissivity *Temperature Measurement Workshop Emissivity Testing Workshop*

Imaging and Analysis Factors

Inspection Techniques Atmospheric Attenuation Field of View Instantaneous Field of View Instantaneous Measurement Field of View IMFOV Workshop Infrared Lenses Infrared Windows

Applications (As pertinent to class)

Introduction to Applications Reporting Electrical Inspections Mechanical Inspections Process Inspections Building Inspections Flat Roof Inspections Class Application Discussions Workshop

Software General Software Discussion

Category 1 Examination





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CARE

Eurotec has been offering Thermography Certification Course since 2014. This course meets or exceeds the recommended training curriculum of ASNT-TC-1A for Category 1 Thermal/Infrared Certification as well as ISO 18436-7. Since our courses have commenced, almost 300 students have completed the courses with A+ grade and 90% pass rate.

Our course provides a comprehensive, hands-on introduction to thermal imaging and measurement systems for predictive maintenance and building integrity applications. No experience in thermography is necessary!

Through this course, you will be able to

- learn how to collect quality data, accurate temperature readings, and account for measurement effects such as distance and emissivity using infrared cameras.
- avoid costly mistakes- learn to distinguish between hot spots and reflections, direct vs. indirect readings and qualitative vs. quantitative thermography.
- develop the skills you need to take full potential of your thermal imaging camera & better serve your clients.

The team at Eurotec are highly qualified and experienced in thermography with all Electrical & Instrumentation team members being Category 1 qualified thermographers.

Since its establishment in 1986, Eurotec has been building an enviable reputation not only as an importer and marketer of a wide range of superior quality Controls, Instrumentation, Gas Detection, Humidification and Ice-making equipment for the HVAC, Refrigeration, Industrial Process, Electrical and Food industries, but also as a company whose people are committed to providing their clients with total quality service. This commitment sees the Eurotec Team working closely with clients as well as designers and specifiers, ensuring that the advice offered in terms of products and applications are in the best interests of our clients.

Our Mission: Through the Knowledge and Ability of our People and the Technology of our Products we deliver the best possible Solutions to our Customers.