



advanced infrared resources

A U S T R A L I A

• CATEGORY 1 •

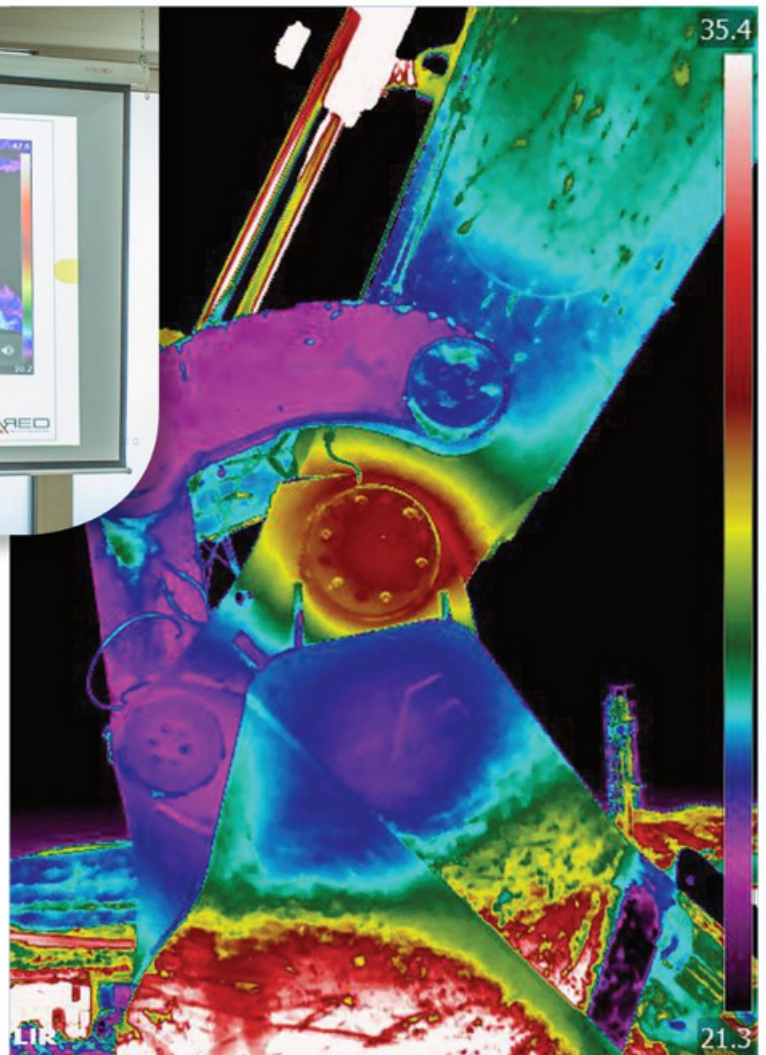
INFRARED THERMOGRAPHY COURSE

5 Days with Instructor Jeff Erichsen



U10/25 Ingleston Road, Tingalpa,
Brisbane, Queensland

*We are pleased to be working with
SVT Engineering Consultants & Training Solutions for this course.*



This course is applicable to:

- Organisations who realise the value of Thermography in their business.
- Small businesses who would like to add Thermography to their growing business model.
- Individuals looking to change their career path by gaining an exciting qualification in a growing industry.

Register now at <https://www.irtau.com.au/training-schedule>



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5 DAY CATEGORY 1 CERTIFICATION / OPERATOR COURSE OUTLINE

This course follows the recommended training requirements of ISO 18436-7 for Category I Thermal/Infrared Certification. The course is also recognised by the Australian Institute of Non-Destructive Testing (AINDT).

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.

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

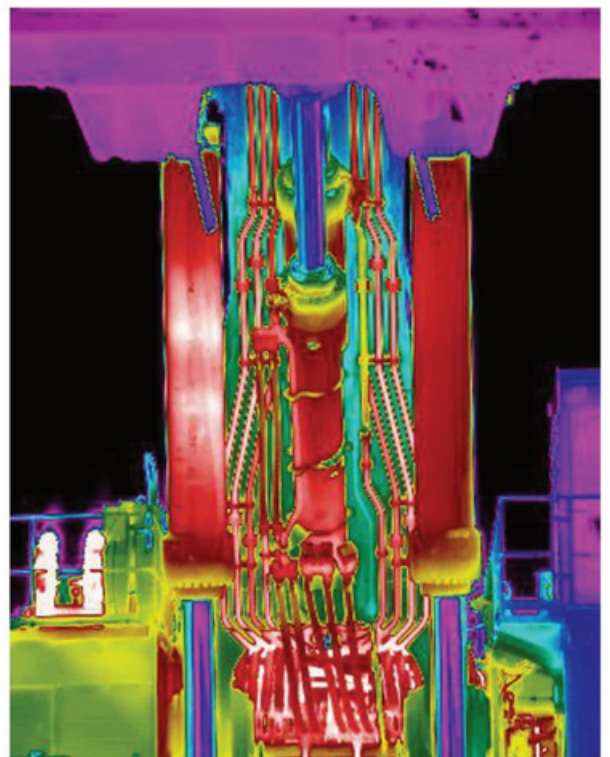
- Introduction to Planck's Curves

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



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INTRODUCTION TO INFRARED THERMOGRAPHY AND PREDICTIVE MAINTENANCE

INFRARED RADIATION PHYSICS

- The Stefan Boltzmann Law
- Wien'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

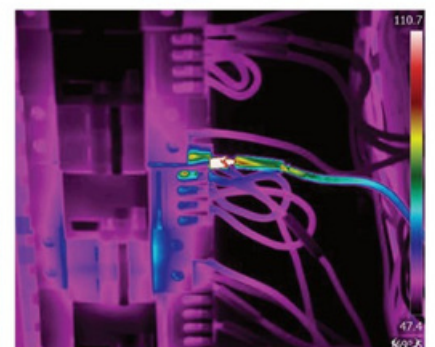
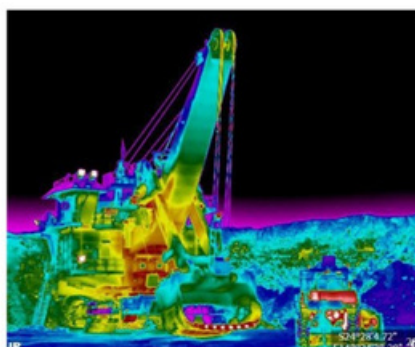
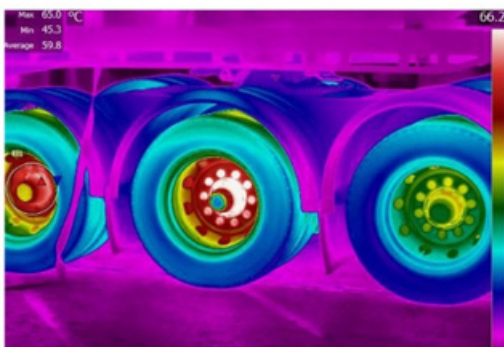
APPLICATIONS

(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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INTRODUCING

JEFF ERICHSEN

Director of Operations of the Asia Pacific Region



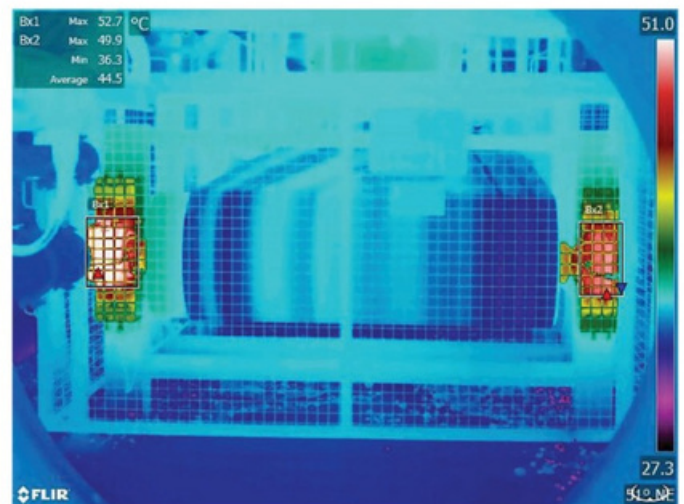
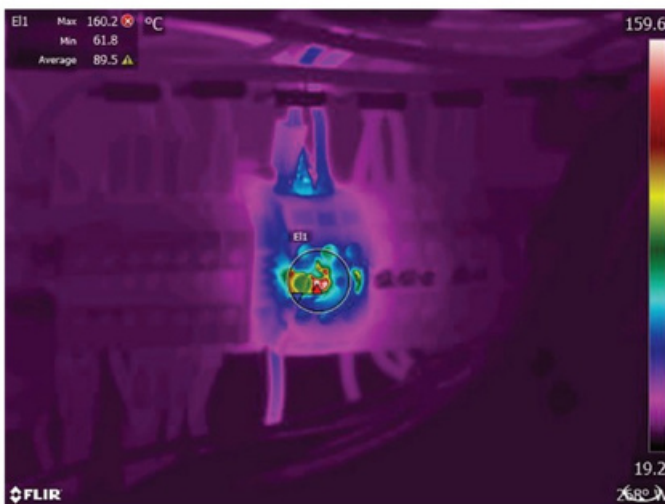
The director of Advanced Infrared Resources Australia (AIRA), Jeff Erichsen, has been involved in the Mining and Construction industries for over 20 years in positions as both a Qualified Heavy Equipment Fitter and a Supervisor/Manager. He is also a Certified Category 3 Thermographer with Advanced Infrared Resources and a Certified Category 1 Thermographer with the Australian Institute of Non-Destructive Testing (AINDT).

Having dedicated thousands of practical hours and innumerable theoretical and R&D hours from inception in 2012, Jeff has emerged as one of Australia's most experienced specialists in heavy mobile mining equipment and fixed

plant. Jeff is also a member of AUSPTA (Australian Professional Thermography Association) & is invited to present his findings and methodologies regularly to the association members and visitors at their general meetings.

Jeff is now proudly the Director of Operations for the Asia Pacific Region for Advanced Infrared Resources. Learn more about Instructor Jeff Erichsen here: <https://www.irtau.com.au/about/>

AIRA runs public courses and site based courses suitable for the industrial sector. Please go to <https://www.irtau.com/contact/> or call 0400 696 505 to register your interest in course now.



Register now at <https://www.irtau.com.au/training-schedule>