



Crimson Industrial Vision

Crimson Industrial Vision Ltd is a Regional Training Partner for FLIR ITC.

ITC offers certification training to recognised standards and is an accredited Authorised Training Organisation (ATO) for the British Institute of Non Destructive Testing (BINDT) as per the requirements of ISO 18436. BINDT is an accredited certification body offering personnel certification against criteria set out in International and European standards.

This course prepares you for qualification as a category 1 certified thermographer. You will learn about the basics of infrared, how to operate the camera under different conditions and for various purposes, how to do an appropriate judgement of the measurement situation in the field and identify potential error sources. You will be able to do IR inspections following written guidelines and to report the result of this inspection.

Introduction to Thermography:	History; benchmarks; applications including electrical, Mechanical, Building, Medical and R&D. Camera technology overview from older scanning systems to modern day FPA's. Explanation of camera operation and how the camera converts radiation into an image
Heat & Temperature:	Heat and measurement; contact v non-contact temperature measurement. How radiation is converted into temperature and an introduction to heat transfer.
Infrared Theory Basics:	Scientific Laws relating to : conduction, convection, radiation, blackbodies, Transmission Emissivity, Reflectivity & Calibration. Practical demonstration of these heat transfer modes with follow up theory
Measurement Techniques:	Atmospheric & Environmental considerations including Distance, humidity, air temp and Reflected Apparent Temperature. How to measure them and setup the camera correctly.
Basic Heat transfer theory:	Temperature definition and measurement, thermodynamics, heat and temperature, heat transfer, conduction, convection and radiation.
Camera Measurement tools:	A look at cross hair measurement, Area box/ circle, colour alarms and specific dew point and insulation alarms
Camera/Software familiarisation:	Hands-on camera experience throughout the course. Camera practice using portable simulated labs; integration of images with Reporting software; creation of reports.
ITC Certification Test:	ITC qualification (50 question multiple choice test) to be held on last day of course.
BINDT Certification Exam optional:	ISO18436 PCN CMGEN APPB 60 q

For further information and to book your course, you can either:

Email us at admin@crimsoniv.co.uk

Or

Call us on +44 (0)1892 539503

Note: Crimson Industrial Vision is registered with the DWP as a provider of training courses.

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