

Level 1 Thermography ISO18436 PCN

ITC Training is recognised for funding through the DWP (Department of Work and Pensions)

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 questions Multiple choice. Apply to BINDT 01604 823707 for details

Recommended Reading:

Recommended Reading

Principles and Practice Volume one Thermography
 ISBN 0903132338
Applications Volume Two Thermography
 ISBN 090313232x

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ITC level 1 course dates for UK and Ireland

Part Number: ITC-CER-4101, Price £1,410+VAT

2018

15th to 18th Jan	ITC Category 1 Thermography	Kent
5th to 8th Feb	ITC Category 1 Thermography	Nottingham
5th to 8th Feb	ITC Category 1 Thermography	Maynooth Ireland
26th Feb to 1st Mar	ITC Category 1 Thermography	Lymm Cheshire
26th Feb to 1st Mar	ITC Category 1 Thermography	Stirling
12th to 15th Mar	ITC Category 1 Thermography	Cardiff
19th to 22nd Mar	ITC Category 1 Thermography	Watford
9th to 12th April	ITC Category 1 Thermography	Stockton on Tees
30th Apr to 3rd May	ITC Category 1 Thermography	Fareham
21st to 24th May	ITC Category 1 Thermography	Nottingham
4th to 7th June	ITC Category 1 Thermography	Lymm Cheshire
25th to 28th June	ITC Category 1 Thermography	Cardiff
9th to 12th July	ITC Category 1 Thermography	Kent
3rd to 6th Sept	ITC Category 1 Thermography	Maynooth Ireland
3rd to 6th Sept	ITC Category 1 Thermography	Stockton on Tees
24th to 27th Sept	ITC Category 1 Thermography	Nottingham
15th to 18th Oct	ITC Category 1 Thermography	Warrington
5th to 8th Nov	ITC Category 1 Thermography	Cardiff
19th to 22nd Nov	ITC Category 1 Thermography	Scotland (Kirkcaldy)
10th to 13th Dec	ITC Category 1 Thermography	Kent office



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In order to get the maximum benefit from ITC courses students find it beneficial to work with their own camera. You must where possible bring your IR camera and laptop to the course.

The level 1 course can be run onsite anywhere within the UK and Ireland and is classed as a group booking. If you would like to find out more about the onsite training including pricing and availability email apirrie@stanburys.com

If you would like to book yourself on a training session contact,

- apirrie@stanburys.com
- [Tel: 07976927538](tel:07976927538)
- **Office: 01462 894144.**