

Category 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.

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| 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. WWW.BINDT.ORG |

Recommended Reading:

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| Recommended Reading | Principles and Practice Volume one Thermography ISBN 0903132338 Applications Volume Two Thermography ISBN 090313232x |
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ITC Category 1 course dates for UK and Ireland

Part Number : ITC-CER-5101, Price £1410+VAT (1725€)

Part Number : ITC-CER-5101, Premium Package £1635+VAT (€2000)

Includes, 12 months ITC online training, ITC Inframation conference proceedings and a FLIR TG165.

2018

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| 15 th to 18 th Jan | ITC Category 1 Thermography | Kent |
| 5 th to 8 th Feb | ITC Category 1 Thermography | Nottingham |
| 5 th to 8 th Feb | ITC Category 1 Thermography | Maynooth Ireland |
| 26 th Feb to 1 st Mar | ITC Category 1 Thermography | Lymm Cheshire |
| 26 th Feb to 1 st Mar | ITC Category 1 Thermography | Stirling |
| 12 th to 15 th Mar | ITC Category 1 Thermography | Cardiff |
| 19 th to 22 nd Mar | ITC Category 1 Thermography | Watford |
| 9 th to 12 th April | ITC Category 1 Thermography | Stockton on Tees |
| 30 th Apr to 3 rd May | ITC Category 1 Thermography | Fareham |
| 21 st to 24 th May | ITC Category 1 Thermography | Nottingham |
| 4 th to 7 th June | ITC Category 1 Thermography | Lymm Cheshire |
| 25 th to 28 th June | ITC Category 1 Thermography | Cardiff |
| 9 th to 12 th July | ITC Category 1 Thermography | Kent |
| 3 rd to 6 th Sept | ITC Category 1 Thermography | Maynooth Ireland |
| 3 rd to 6 th Sept | ITC Category 1 Thermography | Stockton on Tees |
| 24 th to 27 th Sept | ITC Category 1 Thermography | Nottingham |
| 15 th to 18 th Oct | ITC Category 1 Thermography | Warrington |
| 5 th to 8 th Nov | ITC Category 1 Thermography | Cardiff |
| 19 th to 22 nd Nov | ITC Category 1 Thermography | Scotland (Kirkcaldy) |
| 10 th to 13 th 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 Category1 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 jon.willis@flir.uk.com .

For software updates, free downloads and technical support logon to <http://flir.custhelp.com>

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

- **Jon Willis ITC Manager UK (jon.willis@flir.uk.com) tel 01732 220011**
- **Mrs Charlie Reed Bookings & Admin (Charlie.reed@flir.uk.com) tel 01732 221285**
- **www.irtraining.eu**