



Category 1 Thermography Online training

Online Training sessions:

Part Number	Description	Duration	EUR	GBP
ITC-CER-4001	Full Online Certification inc exam - 1 student	4 days	1600	1400
ITC-CER-4002	Full Online Certification inc exam – group of 5	4 days	7000	6300
ITC-CER-4003	Full Online Certification inc exam – group of 10	4 days	13000	11700

This Category 1 thermography course meets or exceeds the syllabus requirement as stated in the British Institute of Non Destructive Testing CMGEN Appendix B syllabus and prepares you for qualification as an ITC 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 (60 question multiple choice test) to be held on last day of course online via a secure platform.

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



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Online certification classes:

Classes are presented via Zoom.gov

The online certification classes are presented live by one of the ITC instructors covering all subjects that would normally be found in a cat 1 customer facing class. The only real difference will be that the training session will be presented using the Zoom platform.

Student classes will be limited to 10 people with all attendees having video and sound options enabled by the host during the training session.

There will be practical demonstrations throughout the training session and discussions on related topics, practical workbook for students to complete and a secure online exam.

	2023	
23 rd to 26 th Jan	ITC Category 1 Thermography Online	4 Day Online inc exam
27 th to 30 th Mar	ITC Category 1 Thermography Online	4 Day Online inc exam
22 nd to 25 th May	ITC Category 1 Thermography Online	4 Day Online inc exam
12 th to 15 th June	ITC Category 1 Thermography Online	4 Day Online inc exam
21 st to 24 th August	ITC Category 1 Thermography Online	4 Day Online inc exam
25 th to 28 th Sept	ITC Category 1 Thermography Online	4 Day Online inc exam
30 th Oct to 2 nd Nov	ITC Category 1 Thermography Online	4 Day Online inc exam
11 th to 14 th Dec	ITC Category 1 Thermography Online	4 Day Online inc exam

In order to get the maximum benefit from ITC courses students find it beneficial to work with a thermal camera during the online training session. It is recommended to have the appropriate report writing software installed as well.

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

ITC website www.infraredtraining.com which includes course dates, certification information and course booking details.

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

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