



Level III Infrared Certification

Level III Course Summary

This course is provided to advance a Level II Thermographer to the level at which they are able to initiate and manage an Infrared Thermographic Program. The course material will give them an advanced understanding of the information necessary to direct other thermographers to provide written procedures and purchase suitable equipment.

Level III Infrared Certification Outline

Principles and Theory

Conduction, Convection, Radiation
The Nature of Heat and Heat Flow
Proper Selection of Thermal/Infrared Testing
Differences Between IR/T and Other Methods

Complimentary Roles of Other Methods Factors that Qualify and Disqualify IR/T

Equipment & Materials

Contact Temperature Measurement Equipment

- Thermometers
- RTDS
- Change of State Devices

Infrared Imaging Devices

- IR Film
- Light Intensifiers
- 2 – 12 μ m Infrared Equipment

Non-Contact Temperature Measurement Devices

Techniques

Calibration of Infrared Systems
Emissivity Calculations
Reflectivity Calculations
Transmissivity Calculations
Overview of Passive Application Techniques
Overview of Active Application Techniques

Existing Infrared and Related Standards

ASNT – American Society for Non-Destructive Testing
ASTM – American Society for Testing and Materials
ANSI – American National Standards Institute
IEEE – Institute of Electrical and Electronics Engineers

Infrared Program Initiation and Management

Selecting Equipment
Understanding Various Certification Procedures
Written Program Procedures and Documentation
Managing Level I and II Thermographers
Safety Standards
Reporting

- Database Management
- Cost Justification
- Software Programs
- Inspection Reports

Preparing for ASNT Level III IR/T Examination

NETA CTD Program Recognized Course CTDCs: 38 hours

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