



**Technical Diagnostic Services Training Institute**

## **Infrared Training for Level III Certification 24 Hours**

### **Who should attend?**

Designed for students looking for Level III Infrared Thermography Certification. (The Level-III shall be responsible for designing and implementing a written practice in accordance with the employer's needs - he/she will oversee the Level I & Level II requirements and performance) Prerequisite = Level II Certification - Responsible for SNT-TC-1A's Scope, Definitions, Levels of Qualification, Written Practice, Education & Training, Examinations, Certifications and Terminations.

### **Course Description:**

This course covers advanced topics related to developing, implementing, and managing a successful infrared inspection program. Topics include: latest applications, hardware & software, current industry standards & specifications, OSHA and NFPA safety standards, marketing and promoting an infrared inspection program, thermography as legal documentation, heat transfer analysis software, current industry certification criteria, and how to develop and implement standards-compliant written practices and procedures.

This is a three-day course focused on best practices for infrared inspections and associated activities. This course contains information vital to the long term success of any infrared inspection program.

Students are encouraged to bring their own imager for individualized training or to learn how to use it more effectively.

TDSTI's Level III - as a Administrative Infrared Course - (The Level-III shall be responsible for designing and implementing a written practice in accordance with the employer's needs - he/she will oversee the Level I & Level II requirements and performance) Prerequisite = Level II Certification - Responsible for SNT-TC-1A's Scope, Definitions, Levels of Qualification, Written Practice, Education & Training, Examinations, Certifications and Terminations.

**TDSTI**

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### Course Outline

- 1. Ensure a Successful Infrared Inspection Program**
  - a. Define a successful program and identify program obstacles
  - b. Understand the requirements of OSHA, NFPA, and other regulatory agencies
  - c. Identify and specify safe practices for performing IR inspections
  - d. Eliminate recurring problems through application of Root Cause Failure Analysis
- 2. Explore Latest Technology**
  - a. Discover newest applications for infrared thermography
  - b. Discuss features and benefits of new test equipment
  - c. Utilize state-of-the-art software for data management & report generation
  - d. Identify industry trends and business opportunities
- 3. Understand Industry Standards & Specifications**
  - a. Review current standards and specifications
    - i. ASTM, ANSI, ASNT, Infrasppection Institute, ISO, NETA, NFPA
  - b. Examine current NDT certification programs
  - c. Identify certification criteria
  - d. Develop a written practice for thermographer certification using ASNT standards
- 4. Marketing and Promoting an Infrared Inspection Program**
  - a. Enlist principles of marketing to identify, position and price IR services
  - b. Analyze best practices for effective promotion
  - c. Discuss key elements for an effective website
  - d. Explore e-commerce opportunities to increase revenue
- 5. Thermography and the Law**
  - a. Review importance of thermography as legal evidence
  - b. Examine role of the thermographer as an expert witness
  - c. Identify appropriate report content
  - d. Learn cardinal rules for delivering testimony
- 6. Advanced Heat Transfer Theory and Applications**
  - a. Discuss heat transfer analysis software
  - b. Learn how to quantify heat loss in structures, piping, and insulated systems
  - c. Understand appropriate application of available software
  - d. Recognize benefits of computer modeling for financial calculations
- 7. Integrating PdM Technologies**
  - a. Discuss role of thermography as a PdM technology
  - b. Identify complementary PdM technologies
  - c. Learn necessary steps to effectively implement a PdM program
  - d. Ensure program longevity through proper planning and management

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