

# Thermal Imaging CAT I

ISO 18436 – IRT 1

Level I Certified Infrared Thermographer® is a five-day course for the application of qualitative thermal imaging for P/PM, Condition Assessment, Condition Monitoring, Quality Assurance, Forensic Investigations, and Building Sciences.

## Infrared Thermography – CAT I Training Main Topics:

- Introduction to Thermal Imaging**
  - Course Overview , Overview of IR Applications
- Introduction to Infrared Theory**
  - Basic Infrared Theory & Thermal Imaging Systems, Heat Transfer Concepts
  - Emittance, Reflectance & Transmittance
- Thermal imaging camera (equipment) setup & operation**
  - Imager Operation & Selection
  - Selecting and Purchasing a Thermal Imager – What You Need to Know
- Infrared Thermography Program**
  - Nine Steps to Setting up an Infrared Program, Program Economics & Benefits
  - Recording Data & Images / Generating a Qualitative Report
  - Quick Start Procedure for Creating Reports in TI Reporter™
- Electrical Systems Inspection**
  - Infrared Inspection of Electrical Systems
  - 7 Common Electrical Defects Detectable by Thermography
- Mechanical Systems Inspection**
  - Infrared Inspection of Mechanical Systems
  - Steam and Fluid Systems
- Energy Loss**
  - Infrared Inspection for Energy Loss
  - Energy Loss – Radiation, Convection, Conduction
- Insulated Roofs Systems Inspection**
  - Infrared Inspection of Insulated Roofs
  - Standard for Infrared Inspection of Insulated Roofs

