

# INFRARED THERMOGRAPHY

Thermography can be used to monitor the condition of structures, plant machinery, and systems. It is a predictive maintenance technique using an infrared camera designed to monitor the emission of infrared energy. Infrared Thermography is a useful tool for maintenance of electrical and mechanical industrial systems.

Using infrared technology effectively within a predictive maintenance program is all about gathering the data correctly and then interpretation of the data. In this one-day seminar, our knowledgeable instructors relate their real world experience to help you learn these valuable techniques, avoid the pitfalls and common mistakes, and create a steep learning curve for you to immediately go back and apply what you have learned.

## WHAT YOU'LL LEARN:

Participants will learn how to correctly operate an infrared camera in order to receive the most accurate data. You will also learn how to interpret the resulting data and determine next steps for preventative maintenance.

You will be able to use techniques learned in this seminar to monitor electrical equipment, HVAC systems, motors, bearings, and much more.

## SEMINAR DESCRIPTION:

### Agenda Topics:

- Basics of infrared technology
- Theories associated with basic infrared technology
- Safety concerns and different types of infrared problems
- Data collection and reporting
- Use of an infrared camera (FLIR i7 actually used in class)

## CLASS FORMAT:

Hands-On and Lecture

## STANDARD CLASS SIZE:

NTT recommends a class of no more than 35 participants to obtain the best results.

## NTT TO PROVIDE:

- 1-day hands-on and lecture
- Textbooks
- Classroom consumables
- Completion certificates
- Shipping and instructor travel logistics

## CLIENT PROVIDES:

- Classroom of 500 square feet or greater
- Projection screen, white board and/or flip chart(s)

## WHO SHOULD ATTEND:

- Electricians
- Mechanics
- Apprentice and experienced HVAC technicians
- Linemen & Utility workers
- Warehouse employees
- Maintenance Technicians
- Energy management personnel
- Plant & facility maintenance technicians
- Building engineers, managers & superintendents
- Plant & facility managers
- Stationary engineers
- Safety directors

## UPON COMPLETION OF THIS SEMINAR, PARTICIPANTS WILL BE ABLE TO:

- Apply industry best practices of infrared thermography within their predictive maintenance program
- Apply effective techniques for operation and use of infrared cameras
- Interpret data correctly to increase equipment reliability

