

Introduction to Infrared Thermography

Course No. TT-IR-Intro

In the recent past, infrared camera prices ranged from \$5,000 to \$25,000. Their use was limited to relatively few, highly trained specialists who attended several week long courses and demonstrated technical proficiency by passing exams administered according to ISO/ASNT standards.

Infrared cameras are now relatively inexpensive. These powerful, yet affordable tools are now being placed in the hands of thousands of technicians who have never been trained on their proper use. Without proper knowledge, a user can easily overlook critical issues or misidentify problems where there are none. **Users open themselves up to liability by using tools without proper qualifications.**

This is a **hands-on** introductory classroom course. **Numerous demonstrations with real cameras** are used to teach the basic theory, principles and practices of Infrared Thermography. At the end of this course, students will have a better understanding of the proper and effective use of infrared thermography in their work.

Course Outline:

- Physics of infrared light: emissivity, transmission, reflection, convection, conduction
- Applications/uses overview of infrared
- Typical camera features and operation
- How to compose a good photograph
- How to perform an inspection
- Safety considerations
- Building inspection
- Electrical inspection
- Mechanical inspection
- Data analysis
- Reports
- Hands on training
- Practical, real world examples
- Useful reference materials



Who Should Attend This Course?

Electricians, mechanics, supervisors, energy auditors, PdM technicians and others seeking introductory knowledge of infrared inspection. Bring your infrared camera and questions to class.

Contact **Torq Engineering** at (970)412-9337 or **Denver Electric Motor** at (303)292-9133 to schedule a class.

This introductory course is not a substitute for attending ISO/ASNT Infrared Level 1 and Level 2 certification training classes which each consist of 32 hours of training followed by a certification exam.