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# INFRARED INSPECTIONS FOR HOME & BUILDING INSPECTORS

## 1. Basic Infrared Theory

- Heat transfer
- Electromagnetic spectrum
- Emittance, reflectance, and transmittance
- Atmospheric transmission
- · IR imaging systems and lens materials

## 2. Infrared Equipment

- Selection criteria
- Range and level settings
- Equipment set-up & operation
- Image interpretation & recording
- Equipment care & maintenance

#### 3. Infrared Building Inspections

- Theory and component construction
- Insulation and material characteristics
- · Inspection techniques
  - interior / exterior
- Weather variables and influences
- Required site conditions
  - creating sufficient Delta T
- Thermal signatures
  - missing & damaged insulation
  - air leakage
  - latent moisture
  - pest damage
- Mold detection
- Inspection of building subsystems
- Other tools
- Verification of data
- Data recording
- Standards for inspections

## 4. Infrared Roof Inspections

- Theory and component construction
- · Insulation and material characteristics
- Inspection techniques
  - ground based / aerial
- · Weather variables and influences
- Required site conditions
- Safety practices
- · Thermal signatures of latent moisture
- Verification of data
- Data recording
- · Alternate methods of moisture detection
- Standards for inspections

## 5. Infrared Electrical System Inspections

- Theory and thermal signatures of problems
- Seven types of detectable defects
- · Conducting an inspection
- Safety practices
- · Confirming exceptions
- Data recording
- Standards for inspections

## 6. Marketing

- How to start / expand an IR consulting business
- Identifying potential markets
- · Advertising your services
- Locating qualified prospects
- Attracting repeat business
- Establishing fee structures

