SWA CONSULTING Scott Wood Associates, LLC

Level II Advanced Building Science Thermography

Individuals achieving course requirements for SWA Consulting's Level II Building Science Thermography Certification are considered qualified advanced Building Science Thermographers. This qualifies the Level II Building Science Thermographer to:

- a) understand the limitations and select the appropriate infrared thermography technique for building analysis
- b) apply thermography and building science, knowledge, theory and techniques, including measurement for the interpretation of survey results
- c) specify and use the appropriate hardware and software for building applications
- d) perform advanced diagnostics of thermal anomalies found during thermographic investigations
- e) understand and utilize accepted practices, standards, regulations and statutes for thermographic building investigations
- f) use generally recognized advanced techniques for infrared thermography of buildings and diagnosis of thermal anomalies in accordance with established procedures technique for building evaluations (Heat, Air and Moisture flow)
- g) prepare and provide reports on as-found building condition, faults, irregularities, diagnoses and recommend corrective actions for repair and remediation
- h) implement the use of alternative or supplementary technologies and tools that support or enhance the effectiveness of thermographic investigations of buildings
- i) perform building envelope fault detection and assessment of the thermal, air and moisture barriers
- j) provide guidance to and supervise level I personnel

Topics and Applications for Thermal Building Evaluations

- Evaluating wall systems including; Thermal, Air and Moisture Performance of building systems
- Building Science concepts; Heat, Air and Moisture Flow, including damage functions
- Calculate damage due to heat and moisture conditions.
- Buildings thermal performance, energy audit or energy loss inspection evaluation, calculating heat loss using thermography
- Determine dew point, air temperature and surface temperatures using thermography
- Methodologies for air infiltration and exfiltration studies (Blower doors and mechanical systems)
- Understanding roof moisture thermal procedures
- Conditions and guidelines for thermographic inspections of masonry and concrete block structures
- Procedures, methodology, safety and reporting
- Electrical Wiring/Hot Spots Inspection
- The ability to identify and apply appropriate inspection techniques for building evaluations





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