

Healthcare Construction Infection Prevention



Environmental Safety Technologies
The Indoor Air Quality & Microbiology Experts

According to the CDC, healthcare-associated infections are a major problem in healthcare facilities, resulting in extended hospital stays and increased mortality rates, as well as healthcare cost increases.

- There are over 6,000 hospitals in the United States with approximately 1 million beds total.
- Each year there are approximately **2 million** hospital acquired infections (HAI).
- Of these infections, approximately **90,000** end in death.
- As many as **5,000** deaths are due to construction and maintenance activities.
- **3 billion** dollars per year, is the estimated cost of HAI.

Did You know?

Aspergillosis has an 80% mortality rate.

9% of all hospital acquired infections are caused by fungi.

Environmental Safety Technologies adheres to the following guidelines to provide guidance in minimizing and/or preventing the transmission of pathogens in the indoor environment during construction related activities.

The Joint Commission (TJC)

Hospital Accreditation Standards

When planning demolition, construction, or renovation, the hospital uses risk criteria that address, the impact of demolition, renovation, or new construction on:

- Air quality requirements
- Infection Control Risk Assessment (ICRA)
- Utility requirements and emergency procedures
- Noise and vibration
- Interim life safety measures

The American Institute of Architects (AIA)

Guidelines for Design and Construction of Healthcare Facilities

During the planning phase of a project, after carefully considering the facility's patient population and programs, the owner shall provide an Infection Control Risk Assessment (ICRA).

CDC and Healthcare Infection Control Practices Advisory Committee (HICPAC)

Guidelines for Environmental Infection Control in Health-Care Facilities

Infection control strategies and engineering controls, when consistently implemented, are effective in preventing opportunistic, environmental related infections in immunocompromised populations.

Benefits of environmental sampling:

- Provides empirical evaluation of infection control practices to minimize the risk of HAI.
- Provides a basis for developing action plans in response to contaminate detection.
- Provides confirmation that corrective actions were effective in risk and liability reduction.

Since 1993, **Environmental Safety Technologies** has provided healthcare organizations with infection prevention programs, environmental monitoring and laboratory analysis for construction and renovation projects.

Environmental Safety Technologies, is the nation's **ONLY** environmental firm awarded **BOTH** **American Society of Healthcare Engineers (ASHE)** and **Kentucky Society of Healthcare Engineers (KSHE)** Healthcare Contractor Certifications.

ASSESSMENTS

Evaluate the indoor environment to minimize the risk of infection.

INVESTIGATION

Determine the source of contamination and potential exposure.

EXPERT CONSULTATION

Project guidance in developing a proactive Infection Control Risk Assessment.

TESTING & ANALYSES

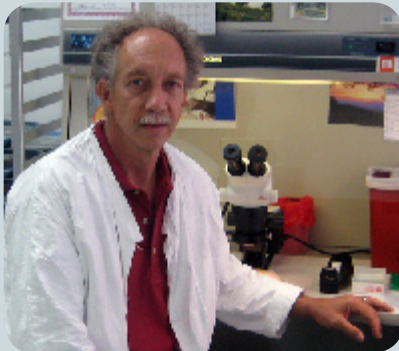
Microbiological analyses & interpretation to measure environmental conditions.



Shauna J. Weis, MA, CIAQP
President

24 Hour Emergency Response

- Flood
- Fire
- Wind
- Natural Disaster



Dr. Richard Miller
Vice-President
Director of Laboratory Services

Kentucky's Only
Accredited
Environmental
Microbiological Laboratory



The logo is circular with the text "ACCREDITED LABORATORY" around the top edge. In the center, there is a stylized icon of a hand holding a test tube. Below the icon, the text reads "AIHA Environmental Microbiology" and "See aihalqap.org for details".

Qualifications and Certifications:

- Certified Healthcare Contractor - American Society of Healthcare Engineers (ASHE)
- Certified Healthcare Contractor - Kentucky Society of Healthcare Engineers (KSHE)
- Ph.D. Microbiologist
- Certified Indoor Air Quality Professional (CIAQP)
- Certified Indoor Air Quality Consultant (CIAQC)
- Certified Indoor Environmental Consultant (CIEC)
- Certified Industrial Hygienist (CIH)



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