

FOR A FRESH SAFE WORLD

GUIDANCE FOR CLEANING, DISINFECTING AND DECONTAMINATING HOTELS

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A HEALTHY HYGIENICALLY CLEAN HOTEL IS VITAL TO YOUR BUSINESS

The hotel industry continues to face significant challenges to reopen in the face of the COVID-19 pandemic. According to the American Hotel & Lodging Association (AHLA), 65% of all US hotels are at or below 50% occupancy, and 4 out of 10 employees in the industry are still not yet back to work.

Guests and employees are understandably concerned for their safety when visiting or working at a hotel. In order to provide assurance to guests and staff that it is safe to stay or work at the hotel, management must provide and promote the greatest reasonable protection available.

This guide will help you ensure that best practices in cleaning and disinfecting are being used by your staff. Following these protocols can give guests and staff the confidence to know that management is executing thorough and complete care in protecting against diseases like COVID-19.

Always follow the policies, procedures and controls of your hotel when it comes to health and safety and the use of disinfectants and decontaminants.

In the pages that follow, we offer a set of protocols, practices and information that will help you to develop a plan to meet your specific needs for infection control using disinfectants and decontaminants.

FOUR STEPS TO CREATING A HEALTHY ENVIRONMENT

- 1. Conduct Your Site Assessment
- 2. Select Your Antimicrobial
- 3. Design Your Delivery System
- 4. Execute Your Plan



Conduct Your Site Assessment

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WALK THE PROPERTY, TAKING NOTE OF HIGH TRAFFIC AREAS

When assessing a property, there are a host of issues to consider.

Walk the property, taking note of areas that are highly trafficked by guests and staff, such as the lobby, public restrooms, hotel rooms, front desk, staff breakrooms, lunchrooms, the laundry room, and water fountains.

HYGIENA SYSTEMSURE PLUS

* Available at artemisbiolsolutions.com

Collect surface sample swabs with an ATP (adenosine triphosphate) meter, such as the Hygiena Systemsure Plus, in order to gauge levels of biomass on surfaces throughout the facility. Biomass is simply the number of organisms on a particular surface or in an area, and assessing its level will dictate how much pre-cleaning should be done before disinfecting or decontaminating a surface or area.

FOLLOW HOTEL POLICIES, PROTOCOLS AND PROCEDURES

Most hotels have developed policies, protocols and procedures to comply with federal laws and OSHA standards. Always follow company policies, protocol and procedures, along with applicable laws.

CONSIDER THE TIME REQUIRED TO DISINFECT THE PROPERTY

Current occupancy levels for many hotels at 50% or below are unsustainable. Keeping room vacancies down is critical to an efficient and profitable operation. When planning for cleaning, disinfecting and decontamination procedures, consider and plan for the time needed to properly do the job.



Ask yourself the following questions:

- Can the space be vacated? And is that a requirement?
- Is there a need to work in zones?
- Can sufficient cleaning, disinfecting and decontamination be done in-between shifts?
- Are there any HVAC concerns?
 - ✓ Is treatment of ductwork and air handler unit (AHU) on option?
 - Should the system be turned off during application?
 - Can the system be turned on right after treatment to incorporate some of the antimicrobial product to provide light disinfection in the duct system?
- Do smoke/alarm detection devices or sensors in the space need to be treated?
- Do textiles in the space that require chemical compatibility testing?
- What, if any, are the post remediation verification (PRV) requirements?
 - ▲ Air sampling for the presence of fungal or bacterial CFUs
 - Visual inspection
 - Presence of chemicals or gas



SELECT YOUR ANTIMICROBIAL

DEFENDER DISINFECTANT RTU

AR

BIO-OXYGEN® Chem Decon Part A

TEMIS **BIO-SOLUTIONS**

MST**575**

BIO-OXYGEN® SANI-CLOUD IAQ PART A

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O BACK

BIO-OXYGEN® SANI-CLOUD IAQ PART B

MICRON FOGGER

BIO-OXYGEN[®] Chem Decon Part B



BIO-OXYGEN® Mold 100 Part B

qirofog

BIO-OXYGEN® Mold 100 Part A

THE GOAL IS TO CHOOSE AN ANTIMICROBIAL THAT IS HIGHLY EFFECTIVE AGAINST PATHOGENS YET POSES MINIMAL RISKS TO HUMAN HEALTH OR DAMAGE TO SURFACES AND EQUIPMENT.

A pathogen is an organism that causes disease. Once the pathogen sets itself up in a host's body, it uses the body's resources to replicate before exiting and spreading to a new host. Pathogens can be transmitted through skin contact, bodily fluids, airborne particles, contact with feces and touching a surface touched by an infected person.

FOUR COMMON PATHOGENS

VIRUSES

Viruses are made up of genetic code, such as DNA or RNA, and protected by a coating of protein. Antibiotics are ineffective as a treatment for viral infections. Antiviral medications can sometimes be used.

BACTERIA

Bacteria are microorganisms made of a single cell. They are diverse and can live in just about any environment. Not all bacteria cause infections. Those that can are called pathogenic bacteria.

Fungi

There are millions of fungal species, but only about 300 are known to cause illness. Fungi can be found virtually everywhere, including indoors, outdoors and on human skin, and cause infection when they overgrow.

PARASITES

Parasites live in or on a host. Three parasites that can cause disease are protozoa (singlecelled organisms), helminths (commonly known as worms) and ectoparasites (organisms that live on or feed off your skin).

Examples

- COVID-19, SARS
- Meningitis
- Chickenpox/shingles
- Measles
- Hepatitis A, B, C, D, E
- HIV and AIDS
- Strep throat
- Bacterial meningitis
- Lyme disease
- Tuberculosis
- Gonorrhea
- Cellulitis
- Vaginal yeast infections
- Thrush
- Ringworm
- Athlete's foot
- Jock itch
- Onychomycosis
- Giardiasis
- Trichomoniasis
- Malaria
- Toxoplasmosis
- Intestinal worms
- Public lice



FIRST, DETERMINE WHICH PATHOGENS YOU NEED TO KILL

The choice of any antimicrobial product will depend on the type of contaminate you intend to eradicate. Some pathogens are relatively easy to kill, while others are resistant to commonly used disinfectants and decontaminants.

When choosing an antimicrobial, your goal should be to always choose a disinfectant or decontaminate that is highly effective against the pathogen yet poses minimal risks to human health or damage to surfaces and equipment.

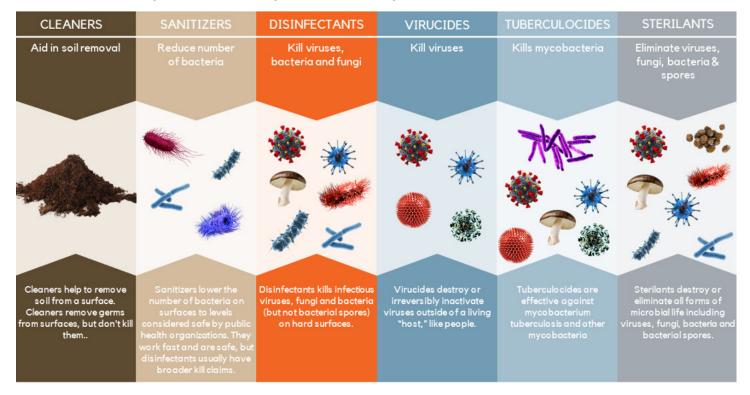
Always read the product's EPA-

registration label for a list of pathogens that the product kills. Label claims are based on standardized tests conducted at a GLP laboratory for efficacy (the ability to kill) against pathogens. Also read the product's SDS (safety data sheet) because some products can pose health hazards and cause corrosion to surfaces.

Not all antimicrobial products are alike. The chart below is a guide to the different types of products used in infection control. From cleaners to sterilants, the product you use should be based on the type of pathogen to eradicate.

TYPES OF INFECTION CONTROL PRODUCTS

There are six general types of infection control products. The effectiveness of the infection control product will depend on the type of biohazardous material involved.





SECOND, DETERMINE THE REQUIRED LOG KILL OF A DISINFECTANT OR DECONTAMINANT

Log reduction stands for a 10-fold (or one decimal point) reduction in bacteria, meaning the disinfectant reduces the number of live bacteria by 90 percent for every step. Log kill is simply the percentage of bacteria or virus that are killed by a particular product. A 7-log kill rate, or 99.99999% is the highest rate measured by U.S. regulatory agencies.

LOOK FOR PRODUCTS WITH THESE ATTRIBUTES

Hotels are busy places. The high traffic of guests and staff means that these environments tend to accumulate dirt and grime. Hotel executives should look for cleaning, disinfectant and decontaminant products with these attributes:

- They work in challenging, soil-load conditions. Many products have kill claims that are based on laboratory tests, but it's important that they work in real-world conditions.
- They have quick kill times for the contaminants that need to be eradicated, so that people can get back to work quickly.
- They contain no VOCs (volatile organic compounds).
- They are non-flammable and non-toxic.
- They have little or no adverse effects on equipment.



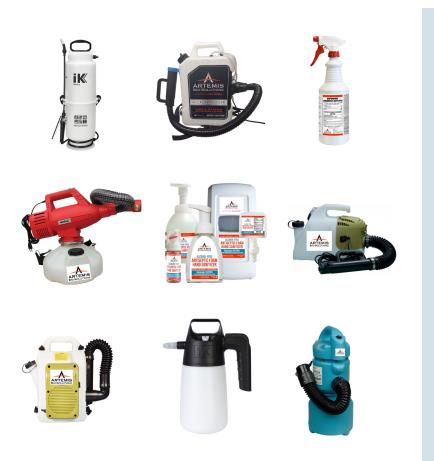


DESIGN YOUR Delivery System



CHOOSE HOW TO APPLY YOUR ANTIMICROBIAL PRODUCT

There are numerous ways to apply cleaners, sanitizers, disinfectants and decontaminants. Choosing the right delivery systems will depend on the specific area of the hotel.

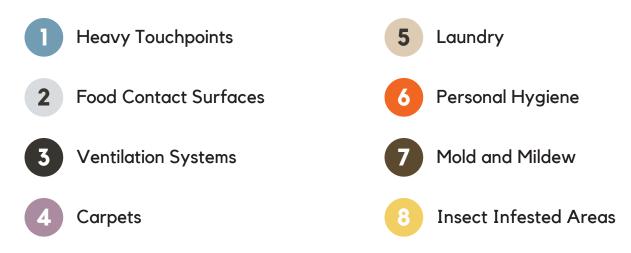


TIPS TO PROPERLY WIPE & SPRAY

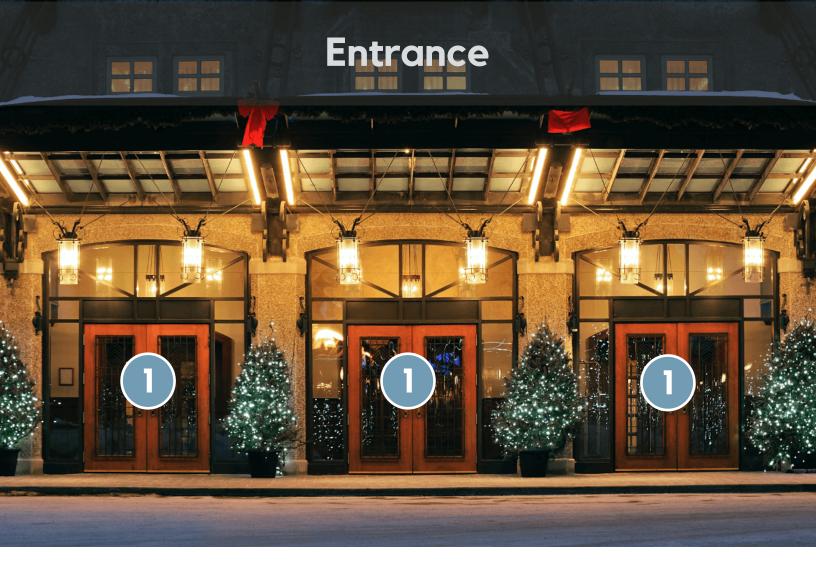
- Follow the manufacturer's EPAregistered label
- Use the 4-fold method with a microfiber cloth and wipe only in one direction. Fold the cloth to always use a clean surface.
- Use a 2-step process to first clean a soiled surface, removing dirt, grime and grease, and then disinfect.
- Allow for the product's prescribed dwell time to kill pathogens.

See the tips in action in this video

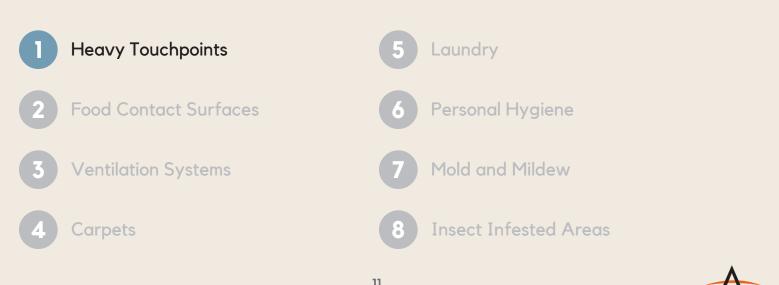
EACH AREA OF THE PROPERTY REQUIRES MULTIPLE DELIVERY METHODS

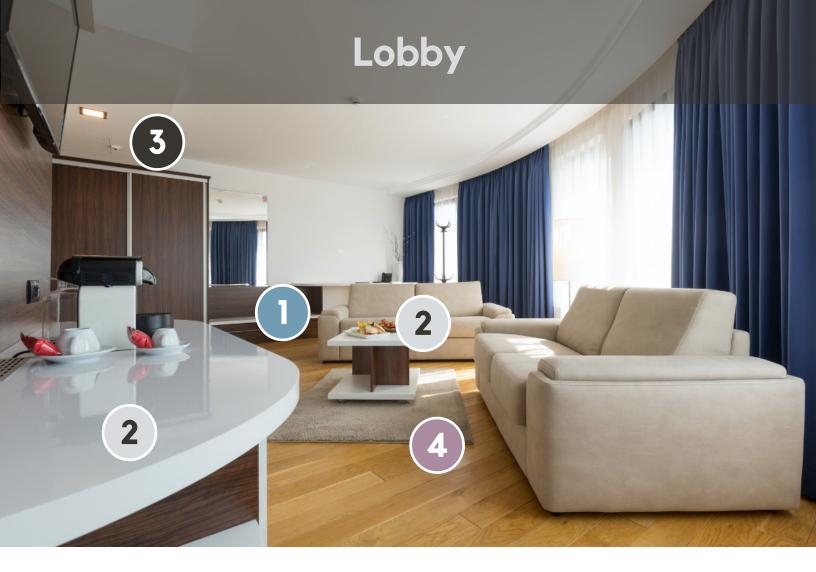




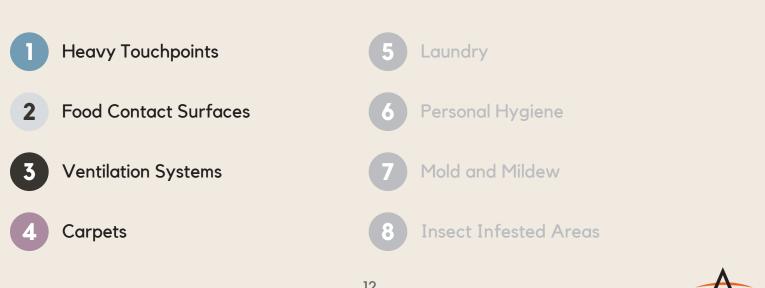


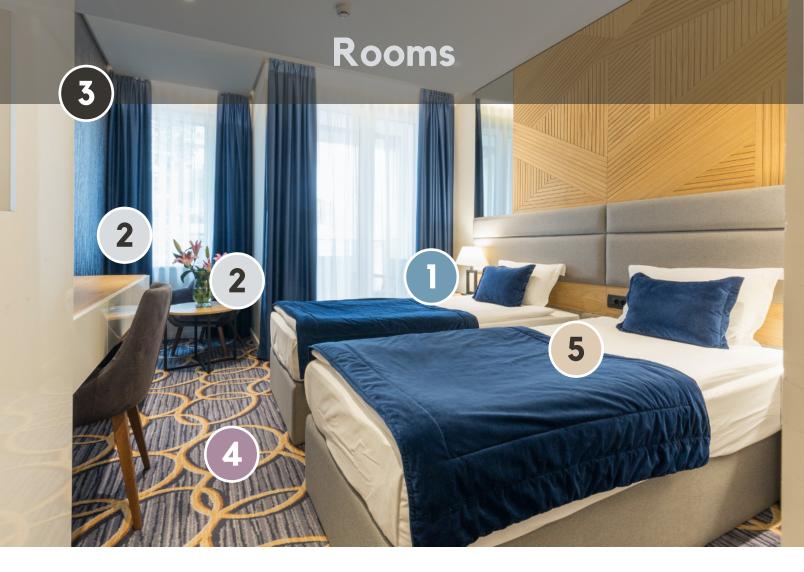
The hotel entrance has heavy touchpoints and requires thorough and regular antimicrobial applications. These heavy touchpoints should be carefully wiped routinely throughout the day. Set expectations among staff on the numbers of times each hour they will wipe down these areas.



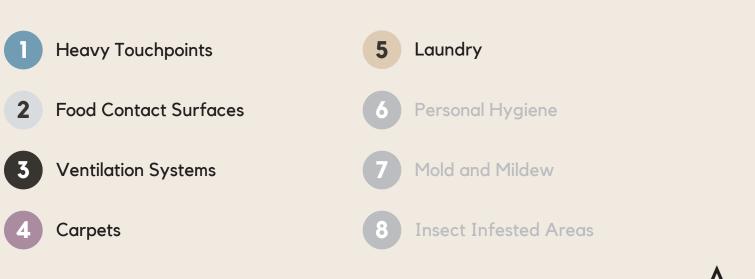


The hotel lobby requires a more complex delivery system. There are several heavy touchpoints in this area, but there are also surfaces that may have contact with food and require a mild solution. The ventilation system should be used to disinfect that air, while the carpets can be treated with a carpet disinfectant solution.

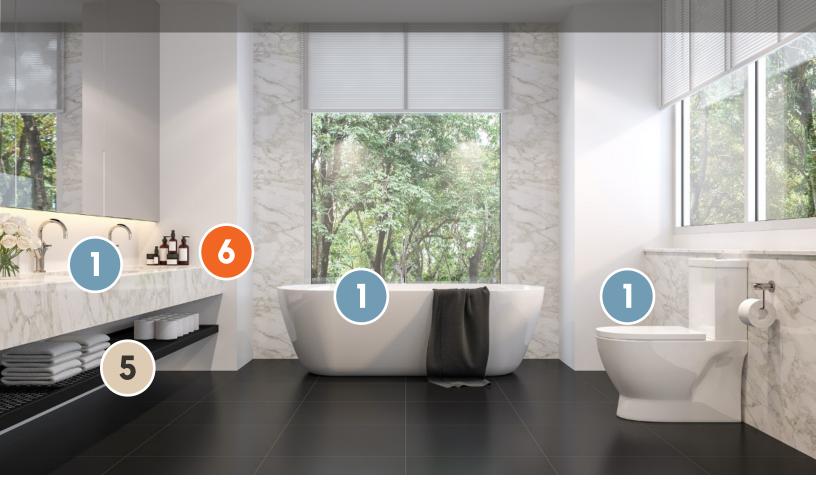




The hotel room is one of the most important areas to disinfect well, as guests spend prolonged periods of time in the room. The rooms require multiple delivery methods for heavy touchpoints, surfaces where food may be contacted, carpets and laundry for linens, covers and bedspreads.

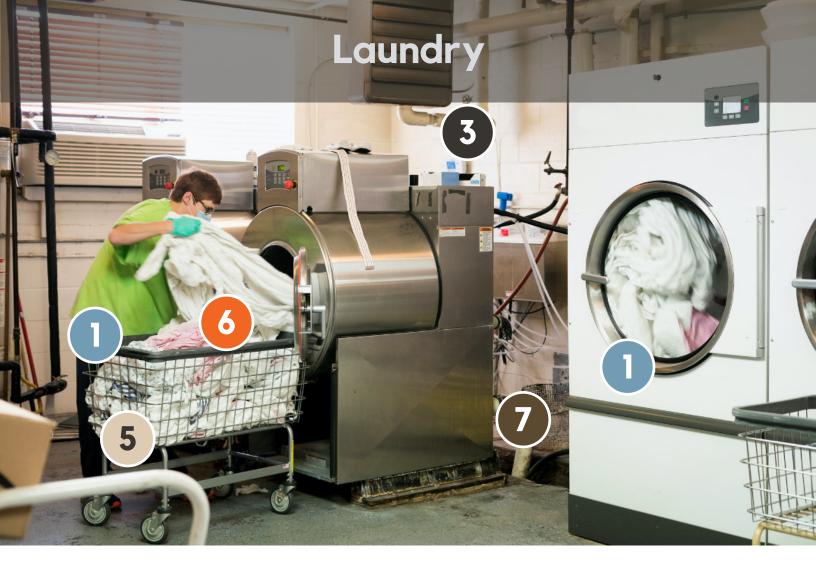


Restroom



Restrooms have heavy touchpoints at the toilet, bathtub and sink. Laundry disinfecting takes care of the towels, while antimicrobial personal hygiene products should be placed on the counter to accompany the other personal hygiene products.

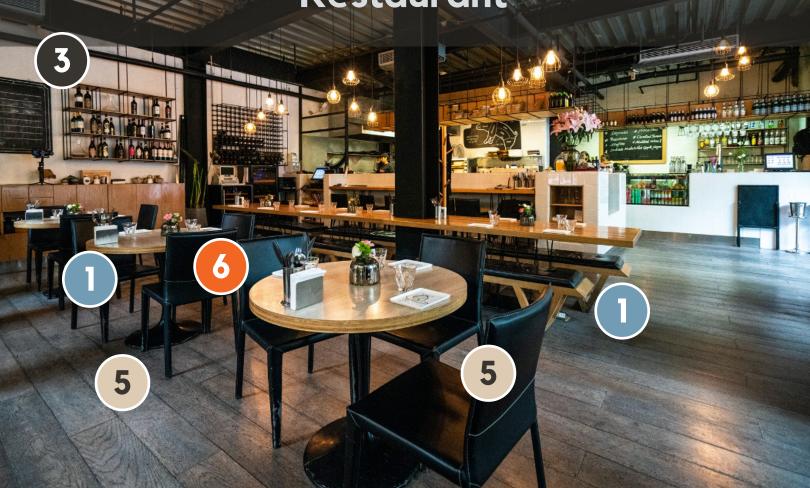




The laundry room has heavy touchpoints along with the opportunity to sanitize the air through the HVAC system. It is not uncommon to require mold and mildew disinfecting in the humid areas of the laundry room.



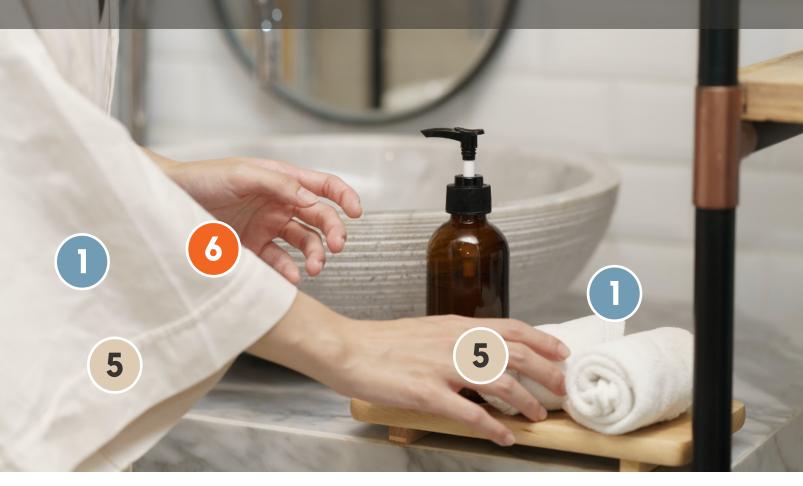
Restaurant



Restaurants can be tricky since so much of the area has food contact surfaces combined with a good number of heavy touchpoint areas. Use of the HVAC system for delivery can be very helpful in creating a fresh safe space for diners and staff.



Personal Hygiene



Make sure to deliver antimicrobial personal hygiene products to guests and staff in convenient locations throughout out the hotel. Place antiseptic soaps at all sinks, sanitizer bottles at all entrances and exits, and sanitizer stations conveniently at all traffic hubs and congregating areas.







EXECUTE YOUR Plan

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ATTE

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COMMUNICATE AND TRAIN

The coronavirus pandemic has impacted industries across the economy, but the hospitality industry has been particularly affected. In order to have a confidence that the property is safe and clean, hotel guests and staff must know what to expect and how to comply with policies and protocols for entering and working at the hotel. Communication and training should be a priority within any hotel property that is undergoing remediation or changes to daily routines to prevent the spread of disease.

When communicating and training, we

recommend that you describe the types of antimicrobial products used to disinfect or decontaminate the facility, and explain why they were chosen. Also describe the types of delivery methods for the antimicrobial, such as spraying and wiping, fogging, foaming, mopping and other methods.

In addition to communicating with employees, also interact with family members. They will want to know that the manufacturing facility is as safe as can be, and they can encourage compliance with safety policies and protocols.

COMMUNICATE AND TRAIN

To create your cleaning, disinfecting, and decontaminating plan, follow six steps:

- Establish Engineering Controls
- Gauge Biomass Levels to Determine Pre-Cleaning
- Pre-Clean as Needed
- Setup Antimicrobial Delivery Systems
- Apply the Antimicrobial and Allow for Dwell Time
- Post Treatment Considerations

DOCUMENT YOUR WORK

Industrial hygiene information is needed at all levels of hotel operations, from front-line workers to C-level executives, particularly during the coronavirus pandemic. Document cleaning, disinfection and decontamination with activity log sheets and a log book, or use an electronic system. Logs should include the purpose of the procedure; the type of pathogen(s) you hope to kill; the type and quantity of cleaning, sanitizing, disinfecting and decontaminations materials used; the methods and systems used in the process; and the date and time of the work.



ADDITIONAL Resources

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ADDITIONAL RESOURCES

Interim Guidance for Hotel Managers and Owners Minnesota Department of Health

<u>COVID-19 Hotel guidelines for cleaning and disinfection</u> InterContenental Hotels Group (IHG)

<u>Ehanced Industry-Wide Hotel Cleaning Guidelines in response to COVID-19</u> American Hotel & Lodging Association (AHLA)

<u>Guidelines for owners and property managers for enhanced cleaning and disinfection of</u> <u>vacation rentals</u> Vrbo

<u>Cleaning and Disinfecting for the Coronavirus (SARS-CoV2)</u> ISSA (International Sanitary Supply Association)

The COVID-19 Pandemic: A Report for Professional Cleaning and Restoration Contractors, 4th Edition

Institute of Inspection Cleaning and Restoration Certification (IICRC), Restoration Industry Association (RIA), American Industrial Hygiene Association (AIHA).

Guidance on Preparing Workplaces for COVID-19

U.S. Department of Labor and U.S. Department of and Health and Human Services' booklet

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