



Cleaning and Disinfection Equipment



Equipment

- Items for care, treatment, restraint, response activities
- Anything in contact with infected animals
- Clean and disinfect OR appraise and dispose



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Equipment

- Necropsy
 - Markers, cut-proof gloves, pencils or pens, cooler, clipboard, tweezers, hemostats
- Restraining tools
 - Rope, snares, halters
- Clinical Supplies
 - Thermometer, stethoscope, blood collection equipment
- C&D Equipment
 - Brushes, buckets, shovels, brooms

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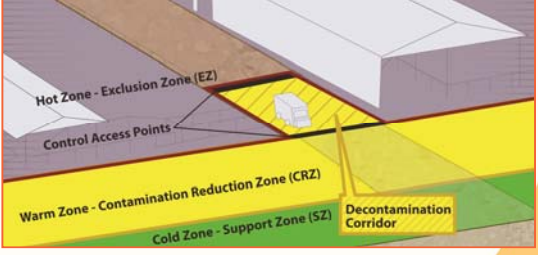
Site Selection

- Adjacent to entrance
- Flat terrain
- Impermeable surface
- House components
 - C&D equipment
 - Water supply
 - Waste water containment



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Biosecurity Work Zones



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Preparation


- Prepare (4) buckets of fresh warm water
 1. Add mild detergent/cleaner
 2. Rinse water
 3. Add EPA-registered disinfectant
 4. Rinse water
- Water temperature no greater than 110°F
- Running water is preferred



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Disinfectant Preparation

- Use according to product label
- Only EPA-registered or approved products
- Prepare fresh solutions
 - Old solutions may have reduced efficacy
- Test kits can help check concentration



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Basic C&D Protocol

- Cleaning
 - Dry Cleaning
 - Washing
 - Rinse and dry
- Disinfection
 - Application
 - Contact Time
 - Rinse and dry
- Downtime

Cleaning	Dry Clean
	Wash
	Rinse & Dry
Disinfection	Application
	Contact Time
	Rinse & Dry

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Wash and Rinse

- In Hot Zone
 - Dry brush to remove gross contamination
- Enter Decon Corridor
 - Wash items with detergent using soft brush, cloth, or sponge
 - Rinse with clean, warm water

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Disinfect

- Apply EPA-registered disinfectant
 - Allow appropriate contact time
 - Must remain “wet”
- Rinse with clean, warm water
- Allow to air-dry or place in sunlight
- Place in clean plastic bag for removal

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Electronics


- Best done by fumigation
 - Requires air-tight enclosure
- If item is sealed,
 - Disinfect by wiping or spraying
 - Ultraviolet light exposure
- Place in plastic bag before entry
 - Wipe bag and item with disinfectant upon exit
- Use waterproof cameras



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Other Equipment


- Euthanizing Equipment
 - Captive bolt guns
- Biohazard Materials
 - Scalpels for necropsy
 - Needles
 - Autoclave containers
- C&D Equipment
 - Brooms, shovels, brushes



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Safety

- Chemical Hazards
 - Skin, eye, respiratory irritation
- Physical Hazards
 - Slips, trips, falls
 - High pressure sprayer



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References

- <https://fadprep.lmi.org>
- USDA APHIS. FAD PRoP NAHEMS
 - Highly Pathogenic Avian Influenza Standard Operating Procedures: Cleaning and Disinfection. February 2010.
 - Foot-And-Mouth Disease. Standard Operating Procedures: Cleaning and Disinfection. February 2010.
 - NAHEMS Guidelines: Cleaning and Disinfection. June 2011.

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