Green Clean Schools Track at ISSA/INTERCLEAN

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Healthy Schools Campaign

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Healthy Schools Campaign
The 5 Steps to Green Cleaning in Schools

Taking the steps toward green, clean, healthy learning environments!
5 Steps to Green Cleaning in Schools

1. Plan your program.
2. Select green products.
3. Introduce green equipment.
4. Adopt green cleaning procedures.
5. Share the responsibility.
How We Roll

- Powerful and Pithy Presentations
  - Strategies, Tips, Techniques
  - Key Innovations
  - Networking tools
  - Call to Action
- Lightening-Fast Igniter Conversations
- Full Panel Action Mentoring Q&A
Questions To Run On

*How can I use the strategies and best practices from this session to address challenges and achieve transformative results in my work?*

*What are the immediate and long-term actions I can commit to taking to advance healthy green cleaning in my schools?*

*Who can I enlist to help me build a strong and effective green cleaning program build to the 5 steps?*
Action Guide

- What are you hearing?
- What makes it important?
- What will you do?
Step 1: Prepare Your School

Keith Webb, *Green Clean Schools Leadership Council Member*
Executive Director of Plant Services, Newport News Public Schools
Are you Ready? Let’s Prepare
Moving Forward

• As you listen to this presentation, please consider the following:
  • Are there obstacles to my implementation of this step?
  • What changes would I need to make to implement this change?
Step 1 – Prepare Your School

Create a green team:

- Administrators
- Maintenance
- Custodians
- Nurses
Rules or Guidelines

Laws or policies
- Does the state have a policy?
- Does the school division have a policy?
- ECFA – Green Sustainable Provisions

The School Board is committed to the development of financially sound and responsible practices and programs that improve environmental quality, decrease waste, and conserve natural resources and energy. Collectively, such practices are described as “green practices.” The Board is further committed to the goal of establishing sustainable green practices which the Board believes will conserve financial resources and help to manage the school division’s resources in the most cost effective manner.
Who ???

• Who is in charge of green?
• Who is in charge of custodial?
• Who decides what the right number of custodians is for a school?
• Who decides what equipment and supplies are purchased?
Assess what you have now

Assess your cleaning program

- Walk-throughs of buildings, looking for red flag items such as:
  - Visible soil, mold and dust
  - Odors especially in restrooms
  - Insect or rodent droppings
  - General clutter
  - Recycling mixed with garbage
  - Building occupant modifications
# HSC Checklist

Place a check mark in each area that has been evaluated and mark areas that need attention. Use "COMMENTS" for notes. Pay attention to your senses – particularly to what you both see and smell. For the most favorable indoor environment, observe levels of dust, odors, and dampness.

Cleaning and maintenance activities must focus first on cleaning for health, and then appearance.

## A. BUILDING USAGE, EXTERIOR AND NEIGHBORS

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- No changes in building usage
- No construction, renovation or other structural changes
- No evidence of standing water on roofs, parking lots or grounds
- No evidence of standing water on neighboring roofs, parking lots or grounds
- Potential vehicular traffic issues

## B. BASEMENTS AND CRAWL SPACES

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- No evidence of moisture or standing water
- No evidence of biological contamination (molds, mildew)
- Drains and sumps appear to be operational.
- No evidence of high levels of dust or debris
- No evidence of insects, rodents or other pests
- No evidence of dirty air filters, pumps, back draft dampers or fans
- No sources of VOCs (e.g. stored chemicals)
- No noticeable odors
- No evidence of cracks in flooring or foundation

## C. GARAGES, LOADING DOCKS AND SHOP AREAS

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- No evidence of excessive dust, trash and debris
- Materials (e.g. paints, chemicals, fuels) are organized and VOCs are controlled through adequate ventilation (e.g. direct exhaust).
- Floors are clean to prevent tracking and floor matting systems are utilized and in good working order.
- Vehicular exhaust is NOT impacting fresh air intakes.
- Dumpster areas are clean and located away from fresh air intakes.
- No evidence of insects, rodents or other pests.

## D. ENTRANCES AND LOBBIES

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- Entrance mats and floor grills are clean and in good working order. Furthermore, they cover enough to be effective (first 0 to 12 feet).
- Waste receptacles are cleaned and emptied.
- Carpets are clean and in good condition.
- Hard floors are clean, dust-free and in good condition.
- Glass doors, decorative surfaces, mirrors and bright work are clean and in good condition.
- Window coverings (e.g. draperies, curtains) are clean.

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What else do I look at in an audit?

Other things to consider as you assess

- Cleaning chemicals, equipment, supplies and paper products
- Cleaning procedures, including maintenance tasks and frequency
- Training programs and processes
- Are their indoor air quality issues
- Feedback from building occupants about cleanliness
Auditing Supplies and Equipment

Cleaning chemicals
  - Are they third party certified?
    - Green Seal, EcoLogo, EPA Safer Choice
  - Ready to use products
    - Ready to use vs. concentrated
    - Aerosol
    - Bleach, ammonia
  - Labels on products “dangerous, hazardous”
  - Stuff from home
  - Unlabeled products
  - Damaged containers
  - Improperly stored products
Auditing Supplies and Equipment

Paper Products
  o What is the recycled content?
  o Is the product on a roll or individual?

Trash can liners
  o Are there too many sizes?
  o Are they too big?
  o Does it take more than 1 to be effective?
Auditing Supplies and Equipment

Equipment

- Note the brand name of the equipment, model number and see if you can find an information sheet on-line

- Is there visible damage to cords or hoses?

- Are the vacuum bags full?

- Is there water left in the scrubber tanks?

- Does the scrubber leave marks on the floor?
Auditing Supplies and Equipment

Entry mats
- Are the mats the right length? +/- 10’ long
- Are the edges of the mat curling?
- Are the mats embedded with dirt?
- Does the mat move easily on the floor?

Other
- Wet /dust mops, mop buckets, carts, trash cans
  - Are they in good condition, are they the right size?
  - Are there enough microfiber cloths and in all the right colors?
Auditing training

Review what you know about training
  o Is there a training plan?
  o Is it easy to understand?
  o Does it include hands-on as well as reading?
  o Are you tested upon completion?
  o Is there some sort of recognition for training that has been successfully completed?
Auditing cleaning processes

Does the cleaning program promote cleanliness as well as health?

Are the products and equipment used properly?

- Are bags or tanks being emptied when full?
- Are chemicals being mixed correctly?
- Are the dirty water/ chemicals disposed of properly?
- Is proper PPE being used?
- Is re-cycled waste being properly handled?
Auditing Supplies and Equipment

Procedures

- Are there written plans and coaches?
  - Are they kept where you can easily find them?

- Are the assignments for daily, weekly and monthly tasks printed and posted for everyone to see?

- Is the immediate supervisor available and willing to answer questions?
Benefits of a Green Cleaning Program

• Improved Indoor Air Quality
• Pollution prevention
• Reduced chemical use
• Reduced illness and absenteeism
• Improve worker safety and ergonomics
• Increase productivity
• Improve public relations
Evaluate

Keep track of how well you meet all the other things mentioned herein.

- How many trainings have you had?
- How many IAQ complaints?
- How much have you recycled?
- Results of ATP
- How much product have you used compared to previous years or other schools?
- Have you asked “How are we doing?”
  - Did you do anything as a result of those answers?
Moving Forward Challenge

• After listening to this presentation, I challenge you to return to your workplace and work toward clearing the obstacles you’ve identified and find the innovations you will need to move toward implementation of this step the the 4 to come.
Thank You!
Step 1
Igniter Conversation

What innovative practices, strategies and approaches can you use to clear away the obstacles to green cleaning?
5 Steps to Green Cleaning in Schools

Step 2: Identify Green Cleaning Products
Presentation Overview

• How to identify professional green cleaning products;

• How to validate high performance green cleaning products;

• How to choose suppliers with a genuine commitment to safer and more sustainable cleaning products
How to Identify Professional Green Cleaning Products
Why are schools and cleaning professionals asking for green cleaning products?

• They care about their children
• They care about their health
• They care about their workers
• They care about their environment
• They care about their future
• They care about their economy

• More than 75% of professional cleaning products still contain one or more chemicals of concern
• Less than 25% of professional cleaning products are certified green by a credible, independent third-party
Chemicals are Essential Elements of Professional Cleaning Products

- **Chemical free cleaning products are a myth.** Water that we drink is a chemical. Air we breathe is a chemical. Food we eat are chemicals.

- The introduction of new chemicals over the past few decades has provided significant value to product designers and retailers.

- New chemicals have helped improve the quality, efficiency and convenience in our workplaces, homes and communities.
BUT.... Not all chemicals are created equal
They can have different:

- Hazard traits
- Human health & eco-toxicity endpoints
- Exposure routes
- Degradation & combustion by-products
- Pollution potentials

*One chemical can cause cancer; another chemical can help treat or prevent cancer*
Harmful Chemicals Impact Our Lives

Toxins in consumer products, packaging and processes
- Harm to human health
- Increase in diseases related to chemical exposures
- Bio-monitoring studies

Toxins in our built environment
- Indoor air contaminants
- Building materials containing harmful chemicals
- Medical devices containing harmful chemicals
- Health care organizations committed to eliminating toxins

Toxins in our outdoor environment
- Water and waterway contamination
- Outdoor air contamination
- Soil contamination
- Landfill and waste treatment

Toxins impact our business and community economy
- Economic Impacts of harmful chemicals
- Social & financial costs
- Great public & private expense
- Externality costs associated with harmful chemicals

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Our Objective Should Be to Identify Genuine Green Cleaning Chemical Products

• Our objective **should not be** to eliminate all chemicals.

• Our objective **should be** to identify safer and more sustainable cleaning products.

• We want green cleaning products that **do not contain** irritants or toxins linked to human health risks.
Compared to Traditional Products
Green Cleaning Products Adds Value to Your Cleaning Program

• Minimizes health risks
  • Protecting vulnerable subpopulations – children and school custodians associated with repeated exposures
  • Eliminating harmful toxins and respiratory irritants

• Reduces pollution
  • Reduce chemicals that pollute indoor air
  • Purchase concentrates rather than ready to use
  • Avoid plastics labeled with 3, 6 and 7

• Conserves resources
  • Use portion control with concentrated products to avoid waste.
  • Consider lifecycle of a product during design stage
Acknowledging and Helping You Eliminate Barriers

**Initially Green Cleaning Products Lacked Professional Acceptance**

- less effective,
- more expensive
- greenwashing - spurious claims without industry standards

**Green Cleaning Products Today Are Being Widely Accepted by Pros**

- Performance studies confirm performance equal to or better than traditional formulations containing chemicals of concern.
- Costing analysis and audits conducted by procurement professionals confirm that green cleaning products and processes have been shown to reduce the total cleaning costs in schools.
- Credible third-party certifications validate claims.
List of Commonly Certified Green Cleaning Products
(Easier to Start With These)

• General purpose and hard surface cleaners
• Glass cleaners
• Hard floor cleaners
• Carpet cleaners
• Hand soaps
• Specialty cleaners (such as drain openers and stainless steel cleaners)
Still Some Challenges Ahead for Green Cleaning Products in Schools

Aerosols
Floor Care
Chlorinated and Ammoniated Cleaners
Disinfectants
Furniture Polish, Dusting Compounds and Metal Polish
Drain Openers and Grease Trap Products
Gum Removers
Lime and Scale Removers
Grout Cleaners
How to Validate Professional Green Cleaning Products
School districts throughout the U.S. are using one or more of these credible organizations to validate that the product they are considering meets the organization’s green cleaning product certification requirements. Visit these websites to confirm and validate that a product you are considering meets the certification requirements of one or more of these organizations. Each of these organizations provides a current list of certified green cleaning products on their websites.

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<td>UL EcoLogo</td>
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Choosing the Right Products and Suppliers
Sustainability is growing as a Business Priority for Leadership Suppliers

Recognition of the value of sustainability continues to grow
93% of CEOs say sustainability is very important or important to future success of their business¹
80% of CFOs are involved in sustainability strategy²
95% of colleges & universities have a sustainability advisory and/or office³
50% of state governments have mandated green purchasing programs.⁴

Green product penetration continues to grow
Responsible products account for two-thirds of the growth in grocery store sales⁵
About one-third of commercial cleaning product sales are green⁶
Nearly 40% of existing and 50% of new non-residential construction is green⁷

1. Accenture and UN Global Compact, CEO Study on Sustainability, 2013
2. Deloitte, CFOs and Sustainability: Shaping their roles in an evolving environment, 2014
3. Sustainable Endowments Institute, College Sustainability Report Card, 2011
4. NASPO 2014 Survey of State Procurement Practices - Summary
5. Boston Consulting Group, An Imperative for Consumer Companies to Go Green, 2014

Our society and economy are dependent on natural resources. Pursuing sustainability helps drive positive economic, social, and environmental value. A sustainability focus can uncover cost savings, deliver new innovation and growth opportunities, improve social conditions, and make organizations more resilient.

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HEALTHY SCHOOLS CAMPAIGN
Suppliers Need to Support Your Green Cleaning Products Objectives

Traditional

Defend the Status Quo

Green Cleaning Products
Not a Priority
No Proactive Engagement

Good Supplier
- No formal chemical's management policy that goes beyond regulatory compliance.
- No sustainability policy or formal goals.
- Meets minimum requirements
- Focuses on lagging indicators.
- Reactive rather than proactive

Social Responsibility

React to Customer Demand for Green But Not a Priority

Better Supplier
- Has a sustainability policy to help guide its internal organization and establishes some internal organization goals.
- No formal chemical's management policy that goes beyond regulatory compliance.
- A few green certifications when the customer requires them.
- Focuses on lagging indicators related to products; and on leading indicators for internal sustainability goals.
- Responds to a customer when they find a green cleaning product another company introduces to them.

Leadership

Proactive Approach
Green Cleaning Products are a Priority

Best Supplier
- Has a formal sustainability policy and chemical's management policy that is made public either on its website or readily available to customers.
- Publishes a periodic sustainability report.
- Has a person or department in charge of sustainability and chemicals management activities.
- Monitors and measures both lagging and leading key performance indicators.
- Proactively introduces new green cleaning product alternatives to customers.

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HEALTHY SCHOOLS CAMPAIGN
Key Questions to Ask Manufacturers and Suppliers
(Listen Carefully to Their Answers)

- Do you currently offer products to help us develop our Green Cleaning in Schools Program?

- Do you have a chemicals management policy that guides the design and formulation of your cleaning products? Is that policy publicly available or available to customers?

- Do you fully disclose chemicals and/or ingredients in your product?

- How can we recognize a product made from safer and/or greener alternatives?

- Who is accountable for the quality, accuracy and comprehensiveness of the chemical information being provided for your product?

- Do you use GreenSeal®, UL Environmental® or EPA Safer Choice for credible, independent third-party green certification of the green cleaning products you offer?
Be Precise and Transparent With Your Suppliers About What You Want and Expect

- Ask your suppliers to help you meet your green cleaning product objectives.

- Tell suppliers you want genuine high performance green cleaning products;

- Tell suppliers you care about the direct and indirect chemical exposure to vulnerable sub-populations including children, women of child-bearing age and workers;

- Tell suppliers you care about the life cycle impacts of chemicals including harmful degradation and combustion by-products;

- Tell suppliers you want cleaning products that have credible, independent third-party green certifications such as GreenSeal®, UL Environmental and EPA Safer Choice.
New Safer Cleaning Products Are Replacing Older and Outdated Cleaning Product Formulations

“You never change something by fighting with the existing reality. To change something, build a new model that makes the existing model obsolete.”

Buckminster Fuller
Choosing Green Cleaning Products for Our Schools Will Help Safeguard and Improve the Quality of Future Generations

- Eliminates hazards where possible and reduces risk to humans to protect human health and wellness
- Improves cleanliness, productivity and efficiency
- Conserves energy and reduces waste
- Creates shared value for schools, community and suppliers

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Phone – 503-915-4640
Step 2
Igniter Conversation

What are the most important issues for you to consider when choosing green products? What do YOU care about?

What sparks you?

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HEALTHY SCHOOLS CAMPAIGN
Step 3: Introduce Green Equipment

Wm R. Griffin, President
Cleaning Consultant Services, Inc.
www.cleaningconsultants.com
Reality

- Destructive Innovation
- The Politics of Change
- Resistance
- Hidden Benefits
Staying Current

• Resources
  • Google
  • Associations
  • Other

• Testing, Evaluation and Validation
Equipment

- Chemicals
- Engineered Water
- Robotics
- Size & Scheduling
- Electric Hand Dryers

Clarke/Boost Scrub/Strip

Micro Scrubber Saber Blade

Tennant – ec-H2O Water Chemical Free

Advap/Tancs Dry Vapor Steamer

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HEALTHY SCHOOLS CAMPAIGN
Processes

- Frequency
- Prevention
People

- Training
  - Self & Staff
  - Doing Not Talking
  - Beyond the Walls
  - Recognition
- Opportunities
- Biggest Challenge
  - Finding & Keeping
  - Upward Mobility Ladder
  - Dream Manager

- IICRC
- CMM
- ISSA
- Distributors
- Waxie
Show Floor

• Work the Edges and the Small Booths
  • International Shows and Why
• ISSA InterClean RIA Amsterdam
  • Verona Show – (Floor Care)
Facts and Figures Validate Results

- Document in Writing
- Lead Don’t Follow
- Benchmarking
Watch the Industries you Serve

- Health Care
- Coatings and Materials
- Construction
- Water
- High Tech
- Consumer Electronics
- Games & Entertainment
- International Cleaning Shows
- 3D, Robotics, VR & AR

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Your Action Plan (in Writing)

- What
- When
- Why
- How
- Cost
- Expected – Desired Results
- Schedule & Action
Closing Comments

Thank You.
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Step 3
Igniter Conversation

How can you overcome resistance to using green equipment and supplies?
Step 4: Adopt Green Cleaning
Training and Procedures

Jodi Krause, Green Clean Schools Leadership Council Member
Assistant Director Housekeeping, University of Wisconsin, Madison
Training

• Regular custodial trainings
  • Centralized for new staff (onboarding)
  • Annual, quarterly, monthly

• Why sustainable cleaning is important – the impact it has on all of us as well as the facility
  • Health
  • Prolong the quality of facility

• Make it fun – group activities, comparing products (old vs. new)
  • Small group discussion
  • Hands on
Centralized Training

• Training Supervisor
  • New full time staff attend (held once per month)
  • Consistency – being shown the same methods/products
  • Communication – staff hearing the same message

• Language Support
  • Written
  • Verbal
Annual, Quarterly, Monthly Training

• Annual
  • Review products and equipment used
  • SDS training
  • Hands on activity

• Quarterly
  • Review products
  • Employee chooses sessions to attend
  • Discussion & hands on

• Monthly
  • Committee (Product, Equipment, Testing)
  • Discussions
  • Demonstrations
Procedures

• SOP’s – ISSA
  • Review regularly

• Training Manuals
  • Create
  • Update regularly
  • Hold staff accountable
  • Collect feedback
Contents
Personal Protective Equipment (PPE) ................................................................. 2
Emptying Trash/Recyclables .................................................................................. 3
Chalkboard/Whiteboard Cleaning ........................................................................... 4
Building Surface and Furnishing Cleaning ......................................................... 5
Wood Polishing ...................................................................................................... 6
Window Cleaning .................................................................................................... 7
Spot Cleaning Glass ............................................................................................... 8
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Spot Cleaning Walls and Furnishings ................................................................. 10
Wall and Ceiling Washing ..................................................................................... 11
Water Fountains .................................................................................................... 12
**Wet Mopping**

**FREQUENCY - Daily**

**MATERIALS & EQUIPMENT**
- "Wet Floor" signs
- Aqueous Ozone or General purpose cleaner depending on application
- Mop bucket with wringer
- Mop
- Putty knife
- Hand held scouring pad

**AREAS WHERE APPLICABLE**
All non-carpeted floors that have been soiled by general or heavy traffic including corridors, lobbies, entrances, vending areas, and elevators must be wet mopped frequently.

**PREPARATION OF MATERIALS**
Properly attach the mop head to the handle. Fill the mop bucket approximately half full with aqueous ozone or proper dilution of water and general purpose cleaner. NOTE: If chemical is not dispensed by dilution station, always put the water in the bucket before the cleaner. Do not use too much of either as it is wasteful, and can harm the floor finish, it may also leave a film or buildup on the floor that makes it more difficult to clean next time.

**PREPARATION OF THE AREA**
Loose soil should be removed by sweeping or dust mopping before spot mopping begins.

**PROCEDURE**
1) Place the "Wet Floor" signs at the edges or entrances to the area.
2) Dip the mop in the bucket and agitate slowly to saturate the mop head.
3) Place the mop in the wringer and squeeze until the solution quits dripping from the mop head.
4) Beginning in a corner of the area to be mopped, place the mop head as near the base board as possible without actually touching it. Pull the mop along the edges of the area until roughly 200 square feet have been "stripped".
**Lounge/Den Cleaning**

1. Straighten up or reset furniture to proper location
2. Wipe down all horizontal surfaces with aqueous ozone including
   a. Tables
   b. Window ledges
   c. Wall hangings
   d. Chairs
   e. Convecors/vents
   f. Lamps
   g. TV’s
3. Clean all glass - windows and doors
4. Empty trash and recycling containers
   h. Change bags if needed
   i. Clean container if needed
5. Spot wash walls
   j. Yearly - walls are fully washed
6. Check lights to ensure proper working order
   k. Change any burnt out bulbs
   l. Wash light fixture covers yearly
7. Vacuum carpets
   m. Vacuum edges weekly
8. Sweep and Mop hard floors with aqueous ozone
9. Spot extract furniture and carpets as needed
Thank You！！！

Jodi.Krause@housing.wisc.edu
What green cleaning practice, policy or innovation will you advance through training?
5 Steps to Green Cleaning in Schools

Step 5: Share the Responsibility
Training and Employee Engagement for Green Cleaning

Gene Woodard, Green Clean Schools Leadership Council Member
Director of the Building Services Department, University of Washington
Gallop Survey Results

Employees in the United States:

- 33% ARE ENGAGED
- 50% ARE NOT ENGAGED
- 17% ARE ACTIVELY DISENGAGED

Source: Yahoo Finance
The Golden Rule: Shingo Leadership Principles

- Respect everyone
- Constancy of purpose
- Lead with humility
What Leaders Do to Engage Workers

Set up a system that:

• Supports new ideas
• Provides continuous improvement
• Supports change in work culture
• Enables people to contribute ideas and solutions
Engaged Employees

- Committed to green cleaning & sustainability
- Provide quality work & services
- Create positive customer interactions
- Improve productivity & teamwork
- Greater job satisfaction
How Do We Change to a Green Culture?

Create an environment of trust and empowerment where members of a natural work team can influence or improve their work.
Welcoming A New Team Member

• Explain the whys of green cleaning
• Describe department’s goals
• Identify challenges
• Standardized training program
• Make sure staff understands procedures
• Ongoing reinforcement and engagement
Key Focus Areas of Green Cleaning Training

1. Chemical use
2. Machine use
3. Sustainability through responsible waste diversion
4. Reduced energy and water consumption
Proper Instructions and Demonstrations

- Microfiber cloths and mops
- Vapor machine (for deep cleaning)
- Floor machines (no chemicals)
- Squirt bottles versus spray bottles
- Recycling/compost/waste collection
- Using end-roll towels and towel paper
- Bucketless mop system
Keeping a Healthy Environment

• Indoor air quality
• Safety
• Ergonomics
• Concept of cleaning for health
Be an Involved Leader

Ask the question: “If it’s not green, what are we doing about it?”

• Clarify the processes during training
• Go see for yourself to grasp the current situation
• Speak with data, manage by facts
• Take action to contain and correct root causes of problems
• Assess effectiveness of training; adapt as needed
• Work as a team—being green is everybody’s business

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Running Total of Ideas Generated/Implemented for BSD

Generated
Implemented

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Other Human and Global Sustainability Topics

- Ergonomics
- Vanpool/Carpool options
- Daytime cleaning
- Being a Green Cleaning Champion
Suggestions to Support Training for Green Cleaning

• Develop Green Cleaning Policy as part of annual training
• Designate and develop trainers to develop expertise
• 5S Custodial Closets (sort, straighten, shine, standardized, sustain)
• Product Review and Evaluation Process: everyone should understand
• Apply for Green Cleaning Award

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Thank you!
Step 5
Igniter Conversation

What leadership narrative will you use to enlist and engage others in green cleaning? What’s your story?
Action Mentoring Q&A

- What did you hear?
- What will you do?
- What do you need to know to get into Action NOW!
Thank You!

The real gift of gratitude is that the more grateful you are, the more present you become.

Robert Holden

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