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MODULE
16

Indoor Environment: Smart Cleaning and Integrative Pest Management

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The Green Classroom Professional Guide emphasizes the importance of choosing appropriate cleaning products in educational environments. Custodial staff play a crucial role in implementing green cleaning protocols, and it is essential to engage them in discussions regarding the cleaning products used within the school.

Learning Objectives

- Green school buildings are dynamic learning environments.
- Operations and Maintenance for Whole School Sustainability
- Meaningful, purposeful, and engaging learning
- Sustainable Grounds & Transportation
- Indoor Environment—Air Quality
- Smart Cleaning & Integrative Pest Management
- Indoor Environment—Acoustics
- Water Efficiency and Quality
- Energy Efficiency—Lighting
- Plug Loads & HVAC Systems
- Materials and Resources
- Innovation & Conclusion
- Summary and Resources / GCP Quiz

INTRODUCTION

- Emphasizes the importance of choosing appropriate cleaning products in educational environments.
- Encourages custodial staff to participate in discussions about cleaning products.
- Recommends conducting an inventory check to assess products, their ingredients, usage instructions, and potential hazards.
- Highlights the role of third-party certifications like GreenSeal and EcoLogo in evaluating product safety and environmental impact.
- Stresses the need for understanding product labels to ensure safety and efficacy.
- Suggests requesting Material Safety Data Sheets (MSDS) for detailed information on each product's composition, health risks, and safety measures.
- Discusses Integrated Pest Management (IPM) as a holistic approach to pest control.
- Five steps of IPM: Keep Pests Out, Remove Pests' Food and Water, Remove Pests' Shelter, and Monitor for Pest Activity.
- Suggests integrating green cleaning practices and IPM strategies to create a safe and healthy learning environment.
- Indoor Environmental Quality: Green Cleaning and Integrated Pest Management

SMART CLEANING



- Utilizes advanced technologies to enhance efficiency and effectiveness of cleaning processes in indoor environments.
- Principles include data-driven approaches, sustainable practices, and training and technology.
- Uses occupancy sensors to identify high-traffic areas requiring more frequent cleaning.
- Incorporates green cleaning products and methods to reduce harmful chemical exposure.
- Training staff in modern cleaning techniques, including automated equipment like robotic vacuums and UV-C light disinfectors.
- Demonstrates improved Indoor Air Quality (IAQ) by reducing allergens, dust, and harmful pathogens.
- Cost-Effectiveness by reducing waste and optimizing cleaning schedules.
- Enhances learning environment by improving student performance and reducing absenteeism.

INTEGRATIVE PEST MANAGEMENT (IPM)

- Combines multiple strategies to prevent and manage pest populations with minimal environmental impact.
- Principles include prevention, monitoring and identification, and control strategies.
- Implemented by a high school experiencing an increase in rodent sightings.
- Benefits include health and safety, cost efficiency, and sustainability.
- As educational institutions evolve, the integration of these practices will be pivotal in addressing challenges associated with indoor environmental quality.



GREEN CLEANING PRINCIPLES AND PRACTICES



- Green cleaning involves using environmentally friendly products and practices.
- Strategies include regular cleaning schedules, effective floor maintenance, air filtering systems, and entryway matting.
- Traditional cleaning products often contain harmful substances that can cause respiratory problems, skin irritations, and long-term health issues.

ENVIRONMENTALLY FRIENDLY CLEANING PRODUCTS, EQUIPMENT, AND PRACTICES

- Adopting environmentally friendly cleaning products is essential for promoting a healthy classroom environment.
- Examples include vinegar and baking soda, plant-based cleaners, and microfiber cloths.



INTEGRATED PEST MANAGEMENT: A GREEN APPROACH



- IPM is a holistic approach to pest control focusing on prevention, monitoring, and non-toxic methods.
- Common classroom pests include Ants, cockroaches, dents, and termites.
- Sources of infestation include food sources, moisture, and entry points.
- Preventative measures include regular inspections, education on proper sanitation practices, and landscaping.

NON-TOXIC BASIC PEST MANAGEMENT METHODS

Non-toxic pest management methods include traps, natural repellents, and diatomaceous earth.

Conclusion

- The integration of green cleaning and IPM strategies enhances Indoor Environmental Quality in educational settings.





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THANK YOU

