



The Virtual School Walkthrough Webinar: Identifying and Solving Common IAQ Problems

Friday, December 9, 2011

1:00 - 2:30 PM EST



Objectives

- Gain insight on how to prevent and solve potential IAQ issues in your school buildings.
- Learn about the power of effective communication when responding to reports and concerns.
- Discover tools and resources to help conduct a thorough and effective walkthrough investigation.
- Identify how walkthroughs help advance an effective framework for IAQ in schools.



Introductions

Facilitator:

 Jennifer Lemon Indoor Environments Division, U.S. Environmental Protection Agency

Speakers:

- David Blake, Environmental Specialist/Indoor Air/Asbestos, Northwest Clean Air Agency
- Richard Prill, Building Science and Indoor Air Quality
 Specialist, Washington State University



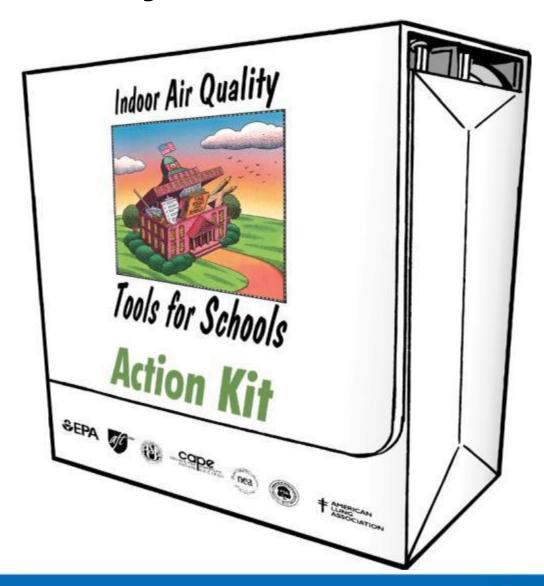
Today's Webinar Presentation and Materials

- Virtual Walkthrough resources and a Questions and Answers document will be available to you soon on the IAQ Tools for Schools website.
 - www.epa.gov/iaq/schools/webconferences.html

- An online Virtual Walkthrough presentation is also available on the Northwest Clean Air Agency website.
 - http://www.nwcleanair.org/aqPrograms/indoorAir.htm



IAQ Tools for Schools Guidance



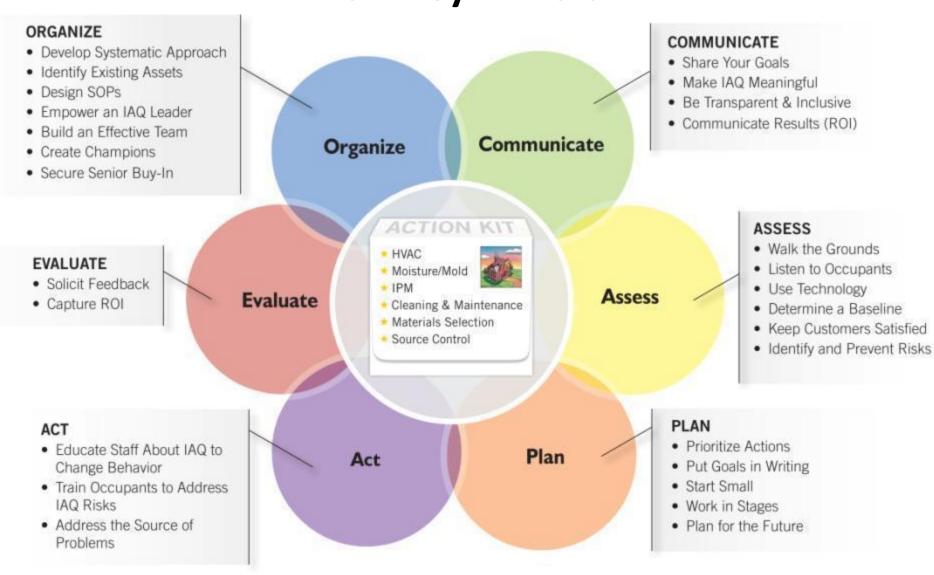


The Framework for Effective School IAQ Management





The Framework for Effective School IAQ Management: Six Key Drivers



The Framework for Effective School IAQ Management: Six Technical Solutions





The Framework for Effective School IAQ Management: Six Technical Solutions

Quality HVAC

- Inspect HVAC systems regularly
- Establish a maintenance plan
- Change filters regularly and ensure condensate pans are draining
- Provide outdoor air ventilation according to ASHRAE Standard or local code
- Clean air supply diffusers, return registers, and outside air intakes
- Keep unit ventilators clear of books, papers, and other items

Control of Moisture/Mold

- Conduct routine moisture inspections
- Establish mold prevention and remediation plan
- Maintain indoor humidity levels between 30% and 60%
- Address moisture problems promptly
- Dry wet areas within 24-48 hours

Strong Integrated Pest Management (IPM)

- Inspect and monitor for pests
- Establish an IPM plan
- Use spot treatments and baits
- Communicate with occupants prior to pesticide use
- Mark indoor and outdoor areas treated with pesticides



Effective Cleaning & Maintenance

- Conduct routine inspections of school environment
- Develop a preventative maintenance plan
- Train cleaning/maintenance staff on protocols
- Ensure material safety data sheets (MSDS) are available to staff
- Clean and remove dust with damp cloth
- Vacuum using high-efficiency filters

Smart Materials Selection

- Maintain products inventory
- Develop low-emitting products purchasing and use policies
- Use only formaldehyde-free materials
- Use only low-toxicity and low-emitting paint
- Select products based on product rating systems
- Use least toxic cleaners possible (only those approved by the district)

Aggressive Source Control

- Conduct regular building walkthrough inspections
- Test for radon; mitigate if necessary
- Implement a hazardous materials plan (use, label, storage and disposal)
- Establish a school chemical management and inventory plan
- Implement Smoke-Free policies
- Establish an anti-idling school bus policy
- Use walk-off mats at building entrances
- Conduct pollutant-releasing activities when school is unoccupied



School IAQ Walk-Throughs

Walk-the-Talk: Putting IAQ Info into Action

Speakers:

- David Blake, Northwest Clean Air Agency
- Richard Prill, Washington State University





IAQ Tools for Schools Resources -- What's new!

- The IAQ Tools for Schools revised website is here!
 - The revised site includes interactive elements and the latest resources to help schools create healthy indoor environments.
 - Access an interactive IAQ Tools for Schools Action Kit: <u>http://www.epa.gov/iaq/schools/actionkit.html</u>
 - And other information tailored to the role you play in your school's community, and multimedia resources such as videos and podcasts: http://www.epa.gov/iaq/schools/



IAQ Tools for Schools Resources

- IAQ Tools for Schools Connector E-Newsletters and E-mails:
 - Send an e-mail to: <u>IAQTfSConnector@cadmusgroup.com</u>
 - View archives at: http://www.epa.gov/iaq/schools/bulletins.html
- Schools IAQ Connector E-Discussion List:
 - Send a blank e-mail message to <u>schools iaq connector-subscribe@lists.epa.gov</u>. Then, check your e-mail inbox for your confirmation and membership details.
- IAQ Tools for Schools Webinar Resources
 - http://www.epa.gov/iaq/schools/webconferences.html



Virtual Walkthrough Resources

- Northwest Clean Air Agency's Indoor Air Quality Program and Virtual Walkthrough DVD
 - http://www.nwcleanair.org/aqPrograms/indoorAir.htm
- Washington State University Energy Program
 - Indoor Air Quality:
 http://www.energy.wsu.edu/PublicFacilitiesSupport/IndoorAirQuality
 http://www.energy.wsu.edu/PublicFacilitiesSupport/IndoorAirQuality
 http://www.energy.wsu.edu/PublicFacilitiesSupport/IndoorAirQuality
- Building Air Quality: A Guide for Building Owners and Facility Managers
 - http://www.epa.gov/iaq/largebldgs/baqtoc.html
- Indoor Air Quality Building Education and Assessment Model (I-BEAM)
 - http://www.epa.gov/iaq/largebldgs/i-beam/index.html



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