EPA’s Indoor Air Quality (IAQ) Tools for Schools guidance has been implemented successfully in tens of thousands of schools nationwide. The Framework for Effective School IAQ Management synthesizes the accumulated learning of more than 800 schools involved in a national survey of IAQ management practices; 200 applicants for IAQ Tools for Schools awards; and in-depth interviews, site visits and analysis of five faculty school districts. The Framework provides a common language to describe the drivers of IAQ program success; detailed guidance on the proven strategies, organizational approaches, and leadership styles that are fundamental to program effectiveness; and a clear vision of the pathway to school IAQ excellence. Its highly flexible and adaptable structure allows any school, regardless of location, size, budget or condition, to use the Framework to launch, reinvigorate and sustain an effective IAQ management program.

The Framework: Key Drivers
The Six Key Drivers are the essential elements of effective and enduring IAQ management programs. Applying a cycle of continuous assessment, planning, action and evaluation, the Six Key Drivers work synergistically to deliver effective school IAQ management programs. The Six Key Drivers are:

- Organize for success.
- Communicate with everyone, all the time.
- Assess your environments continuously.
- Plan your short- and long-term activities.
- Act to address structural, institutional and behavioral issues.
- Evaluate your results for continuous improvement.

The Framework: Technical Solutions
The Seven Technical Solutions define the most common issues that schools need to address to effectively manage IAQ risks. When addressed systematically and aggressively, an IAQ program that focuses on the Seven Technical Solutions will deliver a healthier school environment. The Seven Technical Solutions are grounded in the IAQ Tools for Schools Action Kit, the Centers for Disease Control and Prevention School Health Policies and Practices Study and the management practices of leading school IAQ Programs. The Seven Technical Solutions are:

- Quality HVAC
- Control of Moisture/Mold
- Strong Integrated Pest Management (IPM)
- Effective Cleaning and Maintenance
- Smart Materials Selection
- Aggressive Source Control
- Integrated Energy Management Solutions

www.epa.gov/iaq-schools/framework-healthy-indoor-environments-schools
The Framework for Effective School IAQ Management:

**Six Key Drivers**

**ORGANIZE**
- Develop Systematic Approach
- Identify Existing Assets
- Design Standard Operating Procedures
- Empower an IAQ Leader
- Build an Effective Team
- Create Champions
- Secure Senior Buy-In

**EVALUATE**
- Solicit Feedback
- Capture Return on Investment
- Measure, Assess and Track Program Implementation
- Document Accomplishments
- Determine the Most Effective Strategies for Continuous Improvement

**ACT**
- Educate Staff About IAQ to Change Behavior
- Train Occupants to Address IAQ Risks
- Address the Source of Problems

**COMMUNICATE**
- Share Your Goals
- Make IAQ Meaningful
- Be Transparent and Inclusive
- Communicate Results (Return on Investment)

**ASSESS**
- Walk the Grounds
- Listen to Occupants
- Use Technology
- Determine a Baseline
- Keep Customers Satisfied
- Identify and Prevent Risks

**PLAN**
- Prioritize Actions
- Put Goals in Writing
- Start Small
- Work in Stages
- Plan for the Future

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**ACTION KIT**
- HVAC
- Moisture/Mold
- IPM
- Cleaning & Maintenance
- Materials Selection
- Source Control
- Energy Efficiency

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**Indoor Air Quality (IAQ)**
The Framework for Effective School IAQ Management: Seven 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 Standards 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 a 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 and Maintenance**
- Conduct routine inspections of school environment
- Develop a preventive 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

**Integrated Energy Management Solutions**
- Protect IAQ during energy efficiency upgrades and building renovations
- Conduct regular HVAC maintenance and tune-ups
- Install programmable thermostats
- Consider performing post-construction commissioning for HVAC systems
- Control moisture in building assemblies, mechanical systems and occupied spaces