Overview

- Asbestos
  - What is it?
  - Why Are We Concerned? – Health
  - Regulatory Information
  - Asbestos in School Buildings
  - Requirements for Schools
Asbestos

Asbestos has been used in over 3,000 building products primarily because of the following properties:

- Fireproofing
- Strengthening
- Insulating: Thermal
- Insulating: Acoustical
- Condensate Control
- Decorative

Asbestos – Health Effects

- Asbestos is an inhalation hazard.
- No known safe level of exposure.
- Exposure can be fatal.

Primary Route Of Exposure is “INHALATION”

Hair-like projections called cilia line the primary bronchus to remove microbes and debris from the interior of the lungs.

Asbestos – Health Effects

Three fatal diseases associated with asbestos exposure:

- **Asbestosis**
  - Approximate 15-30 year latency period
  - Direct dose-response relationship

- **Lung Cancer**
  - Approximate 30 year latency period
  - Smokers with exposure to asbestos have 80X greater risk

- **Mesothelioma**
  - Approximate 30-40 year latency period
  - No dose-response relationship
Asbestos Related Regulations

Federal:
- EPA
  - Asbestos in Schools Rule (AHERA)
  - National Emissions Standards for Hazardous Air Pollutants (NESHAP)
  - ASHARA
- OSHA
  - General Industry Standard
  - Construction Standard
  - Respiratory Protection Standard
  - Hazard Communication Standard

EPA AHERA Regulation
- Asbestos Hazard Emergency Response Act (AHERA)
- Asbestos-Containing Building Materials (ACBM) in Schools
- 1987 Regulation Effective
- Applies to K-12, public and charter, non-public schools, not-for-profit

AHERA Scope and Purpose
- Identify friable and non-friable asbestos-containing building materials
- Visual inspection and sampling
- Submit management plans to the HHCU — 40 CFR 763.93 & 10A NCAC 41C.0604
- LEA Designee must be trained — 40 CFR 763.84(g)(1)

AHERA Asbestos Inspections
- Must be performed by a NC Accredited Asbestos Inspector/Management Planner
- All interior, accessible, suspect ACBMs must be addressed during inspection (some exterior)
- Must be conducted in all school buildings
School Buildings Include

- Classrooms, libraries, laboratories, food areas
- Gyms and recreational facilities
- Dorms and administrative facilities

School Buildings Include

- Maintenance, Storage and Utility Facilities
- Portico and Covered Exterior Walkways
- Exterior Portions of Mechanical Systems (HVAC)

Asbestos Management Plan Requirements

Use NC Accredited Individuals:

- To identify, locate, classify, quantify and assess ACBMs
- Document the ACBM assessment in your school’s Management Plans (MP)
- Submit MP and Reinspection Reports to the NC HHCU

Exclusion from the Asbestos Inspection

40 CFR 763.99

School buildings built after October 12, 1988

- Architect, building engineer, or general contractor responsible for the construction of the school buildings provides a letter stating “No ACBMs were specified for use in the construction of the building(s)”. 
- This letter exempts the school building from the required AHERA asbestos inspection, BUT the Management Plan is Still Required.

NOTE: ASBESTOS is still added to some building materials, so sampling is still required today, prior to a renovation/demolition.
AHERA MANAGEMENT PLAN

FORMS REQUIRED FOR EXCLUSION:

• Cover Sheet (DHHS 3511)
• School Buildings (DHHS 3532)
• Steps To Inform Others (DHHS 3538)
• Letter from - Architect, Project Engineer, General Contractor or Accredited Asbestos Inspector

Management Plans are to be in place before the school opens

Yikes!

On-Going Requirements If Your Building Has Identified ACBMs

• Trained LEA Designee per: 40 CFR763.84(g)(1)
• 2-hour asbestos awareness training for custodial staff
• Annual notification to building occupants, workers, legal guardians
• Maintain all records related to asbestos management program:
  o Periodic Surveillance every six months
  o Re-inspections every three years
• Additional samples may need to be taken prior to renovation and/or demolition activities
On-Going Requirements if your Buildings have NO Identified ACBMs

- Trained LEA Designee - 40 CFR763.84(g)(1)
- Management Plan with Exclusion letter to HHCU
- Annual notification to building occupants, workers, legal guardians
- Maintain all records related to asbestos management program
- Samples of suspect material may be need to be taken prior to renovation and/or demolition

Remember!

NEVER DISTURB ASBESTOS WITH CHILDREN IN THE CLASSROOM!

Have all suspect materials sampled for asbestos content - before disturbing!
(use a NC Accredited Asbestos Inspector)

Suspect Materials = everything but wood, glass or metal.

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES
Division of Public Health
Health Hazards Control Unit

Any Questions?

919-707-5950
https://epi.dph.ncdhhs.gov/asbestos/ahmp.html

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES
Division of Public Health
Health Hazards Control Unit

Asbestos Hazard Management Program (AHMP)
Lead-Based Paint Hazard Management Program for Renovation, Repair & Painting (LHMP-RRP)

https://epi.dph.ncdhhs.gov/lead/lhmp.html
(919) 707-5950

https://epi.dph.ncdhhs.gov/asbestos/ahmp.html
What is Lead?

- Lead is a heavy, soft, flexible, blue-gray metal
- Once mined, processed and introduced into the human environment, it is a potential problem forever.

Where has Lead been Found?

- Paint Coatings
- Dust
- Water
- Gasoline
- Glazes
- Vinyl mini-blinds
- Industry
- Food
- Hobbies
- Other (toys, candy, make-up)

NC has Two Lead Programs

Abatement vs. Renovation

Both Programs regulate work completed in pre-1978 housing and child-occupied facilities, but the work is conducted for different reasons.

Other Lead-Based Paint Rules

- OSHA
  Lead in Construction – 1992
  Worker Protection
- HUD
  Lead-Safe Housing Rule – 1999
  Federally Assisted Housing
- EPA/HUD Lead Disclosure Rule
  (Subpart F) (1018) – 1996
  Sale or Lease of Target Housing