



NC DEPARTMENT OF HEALTH AND
HUMAN SERVICES
Division of Public Health

**HEALTH HAZARDS
CONTROL UNIT (HHCU)**

**ASBESTOS HAZARD
MANAGEMENT PROGRAM (AHMP)**


LEAD-BASED PAINT HAZARD MANAGEMENT
PROGRAM FOR RENOVATION, REPAIR &
PAINTING (LHMP-RRP)

<https://epi.dph.nc.dhhs.gov/asbestos/ahmp.html>

(919) 707-5950




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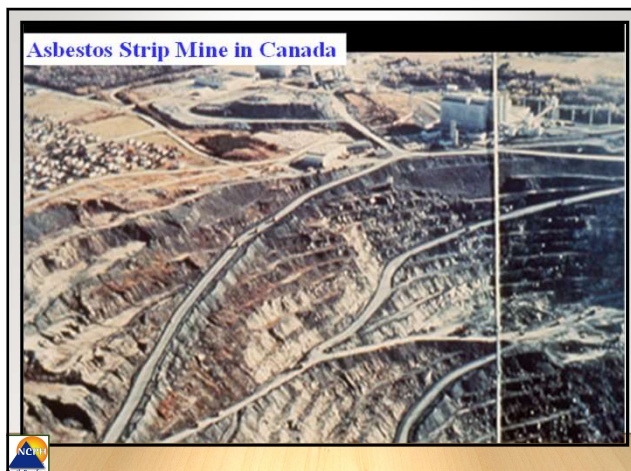
Overview

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

THIS PRESENTATION DOES NOT TRAIN THE LEA DESIGNEE!




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Asbestos

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

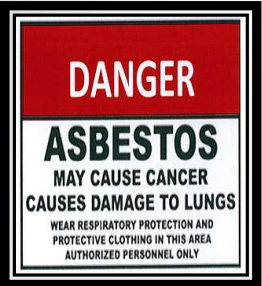
- FIREPROOFING
- STRENGTHENING
- INSULATING: THERMAL
- INSULATING: ACOUSTICAL
- CONDENSATE CONTROL
- DECORATIVE




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Asbestos – Health Effects



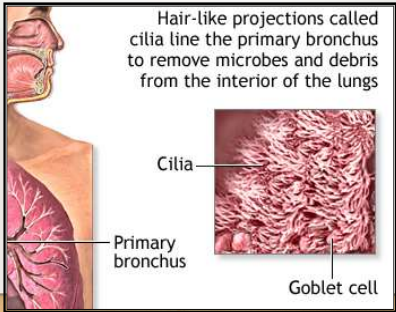
- ASBESTOS IS AN INHALATION HAZARD.
- NO KNOWN SAFE LEVEL OF EXPOSURE.
- EXPOSURE CAN BE FATAL.



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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


Cilia

Primary bronchus

Goblet cell




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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



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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



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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



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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)



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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



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School Buildings Include

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



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School Buildings Include

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



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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



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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.

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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



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AHERA Management Plan

- Schools are required to submit the Signed Management Plans to the HHCU for review and approval
- Must be submitted on NC Program forms – available at:

epi.dph.ncdhhs.gov/asbestos/forms.html



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**Management Plans
are to be in place
before the school
opens**

yikes!



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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:
 - Periodic Surveillance every six months
 - Re-inspections every three years
- Additional samples may need to be taken prior to renovation and/or demolition activities



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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



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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.



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

Any Questions?

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<https://epi.dph.ncdhhs.gov/asbestos/ahmp.html>



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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



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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.



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WHERE HAS LEAD BEEN FOUND?

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



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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.



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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



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