

Asbestos

What do I really need to know?





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Hazwoper Training
Asbestos Training
DOT Hazmat Transport Training
RCRA Training
and More



Asbestos

How did we get here and where will we go?

Andre Zwanenburg



What is Asbestos?

- Asbestos is a natural mineral.
- Mined throughout the world for thousands of years



Aerial of largest asbestos mine in the world. Asbest, Russia



Raw form of Chrysotile Asbestos



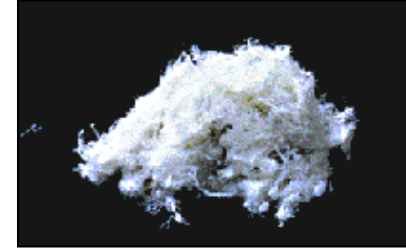
Various forms of Asbestos



Regulated Asbestos Minerals

Chrysotile

"White Asbestos"



Amosite

"Brown Asbestos"



Crocidolite

"Blue Asbestos"



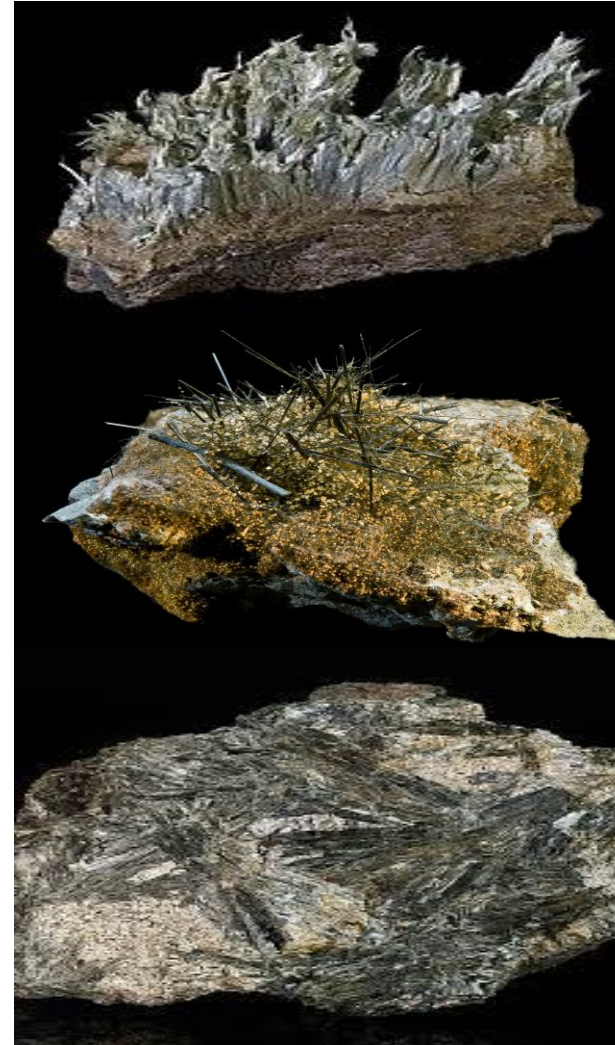
Regulated Asbestos Minerals

Tremolite

(Contaminant in Vermiculite,
Talc, Mastic)

Actinolite

Anthophyllite



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A Brief History

- Egyptians, Greeks and Romans
- Middle ages
- Industrial revolution
- Pre-World War II
- Post-World War II
- 1960's and 70's
- Today



Egyptian mummy wrapped in asbestos cloth



Medieval armor insulated with asbestos cloth



Industrial Revolution, making of asbestos products



1960's and 1970's housing boom



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Are we ever going to ban this?

- The government has tried many times
 - 1972 – Artificial Fireplace Block/Logs
 - 1973 – Fireproofing Products
 - 1975 – Thermal System Insulations
 - 1978 – All Spray Applied
 - 1990 – Sheet Vinyl Flooring
 - 2019 – SNUR (Significant New Use Rule)
 - 2023 – Ban on Chrysotile (6 use cases only)
 - 2025 – ARBAN Bill (Proposed total ban, in congress right now)

BUT as of now, NO BAN!!!!!!!



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Is it still used?

- 2024, 1 Million pounds was imported
 - 3 major industries:
 - Chlor-Alkali industry
 - Friction Industry
 - Gasket Industry

Recent U.S. Imports of Asbestos

YEAR	METRIC TONS
2010	1,040
2011	1,180
2012	1,610
2013	772
2014	406
2015	325
2016	747
2017	332
2018	681
2019	172
2020	300

Source:

USGS National Minerals Information Center



Is it still used?

- No import ban
- Drywall joint compound
- Gaskets
- Asphaltic materials



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What are some common materials?



Pipe and Tank Insulation

Silver roof coat

Fireproofing

Wall Texturing

Popcorn Ceiling

Wallboard systems

Stucco



What are some common materials?



Floor Tile and Mastic

Sheet vinyl

Cement pipe

Roofing

Ceiling tiles

Fire Doors

Window Putty/Glazing

Gaskets



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What regulations are out there?



- OSHA - Worker Protection
 - 1971 (various updates)
 - Requires determination of presence, location, and quantity prior to any impact. REGARDLESS OF AGE
- EPA – AHERA (Schools K-12 Public or Private)
 - 1986
 - Requires 3-year inspection of schools
- EPA - Clean Air Act (NESHAP)
 - 1973 (various updates)
 - Requires thorough inspection prior to any impact. REGARDLESS OF AGE
 - Mainly about Waste Disposal



When is an inspection required?

The rules are simple:

Everything IS Asbestos until you prove it is not!

No exemptions for:

- Project size
- Age of the building (regardless if NESHAP applies or not)
- Time available
- Money available
- Type of Project
- Etc.



What if there was already an inspection?

- Inspections are good indefinitely except.....
- New renovations/materials installed
- Areas not sampled previously and now impacted



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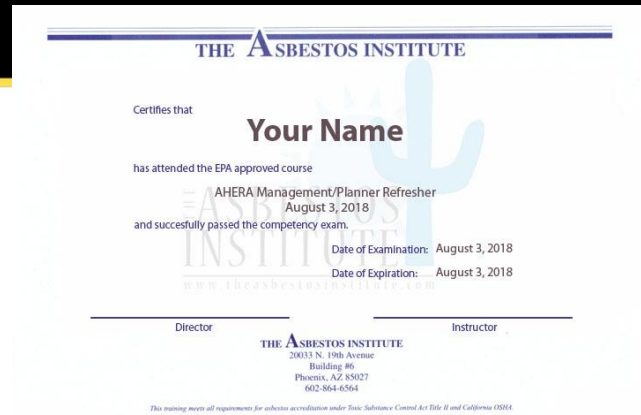
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What does a good inspection report look like?

- NESHAP Thorough Inspection
 - Are all the impacted materials sampled correctly
 - Quantities included
 - All locations included
 - Current condition (Maricopa County requirement)
 - All Lab reports included
 - Clear drawings and photographs
 - All Inspector Certifications included
 - Review by experienced person
 - Good QA/QC program



Who can do these inspections?



- Per OSHA, EPA, and Local Regulations only Certified AHERA Building Inspectors.
 - EPA Trained and Certified professionals
 - Annual re-certifications
 - Adherence to the regulation
 - Professional liability
 - Errors & Omissions Insurance



Where do we go from here?

- Make sure to get a thorough inspection is done prior to ANY impact of ANY building material.
 - There are NO exceptions to this rule!
- Hire a professional company that knows the rules and has the experience.
- Only certified people can perform the survey, and only certified companies can remove asbestos.
- Price is not always the way to pick the right person



What Training do I need to do this work?

- 24 Hour AHERA Building Inspector (through an ACCREDITED TRAINING PROVIDER):
 - Rules and Regulations regarding Asbestos Inspections/Surveys
 - Health effects and medical surveillance requirements
 - Technical information necessary to identify asbestos containing building materials
 - How to effectively write an inspection report
 - Instruction in sampling systems
 - Personal protection equipment (PPE)
 - Legal issues and government regulations

If you are a CIH you still need this certification to meet the regulatory standards



What Training do I need to do this work?

- 40 Hour Contractor Supervisor Training(through an ACCREDITED TRAINING PROVIDER):
 - All Class I and II abatement requires supervision of 40 Hour trained supervisor
 - Workers need less training



SUMMARY

- Everything is asbestos containing until sampling proofs otherwise
 - Regardless of Age, size of project, location (commercial vs residential)
- Sampling can only be done by certified people
- Abatement has to be done by certified people
- If you do not follow the regulations, you can be fined by both OSHA and EPA.
- If you do it wrong big time, you could go to jail.



Thank you!

CONTACT INFO

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