Asbestos
WARNING!

This course is about making you aware of the dangers of asbestos.

It does **NOT** train you to work with asbestos containing materials.

Are you on the correct course?
Agenda

- What is Asbestos?
- Why is it Hazardous?
- Where can we find it?
- What to do with Asbestos on site?
- Recent Prosecutions
What is Asbestos?
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What is Asbestos?

- Chrysotile (White)
- Amosite (Brown)
- Crocidolite (Blue)
The Magic Mineral!

- high tensile strength
- cheap
- good insulator
  - chemical
  - electrical
  - heat and fire
  - sound
- can be woven
- can be used raw or mixed
Why is it Hazardous?
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Why is it Hazardous?

Can cause both Malignant and Benign diseases.

Malignant

- Asbestosis
- Lung Cancer
- Mesothelioma

Benign

- Pleural Plaques
- Diffuse Pleural Thickening
- Asbestos warts and corns
Why is it Hazardous?

Not just Asbestos is a Hazard!

Any fibre that is

\[ \geq 5 \mu m \text{ in length} \]
\[ \leq 3 \mu m \text{ in width} \]

Aspect ratio 3:1 (L:W)

Is respirable and therefore regulated.

See EH40 from HSE for occupational exposure limits.
Why is it Hazardous?

BOHS Breath freely campaign.

Last year.
- 133 Workers died in accidents at work
- 13000 Workers dies from work related diseases

Last year in construction industry
- 42 fatal injuries
- 5500 deaths from occupational related cancers
  - ~ 5000 from asbestos
  - ~ 500 from silica dust
Where can we find it?
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Where can we find it?
Where can we find it? - Loose Insulation
Where can we find it? - Sprayed Coatings.
Where can we find it? - Lagging.
Where can we find it? - Asbestos Insulation Boards.
Where can we find it? - Durasteel.
Where can we find it? - Papers.
Where can we find it? - Textiles.
Where can we find it? - Gaskets.
Where can we find it? - Friction Products.
Where can we find it? - Cement.
Where can we find it? - Textured Coatings.
Where can we find it? - Bitumen.
Where can we find it? - Flooring.
Where can we find it? - Composites.
What to do with Asbestos on Site?
Agenda

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What to do with Asbestos on site? - Manage

Determine the location of likely ACMs
Presume asbestos, unless there are good reasons not to
Written record of ACMs location and condition
Assess and monitor condition and risks of exposure
Prepare a written plan of action based on risk assessments
  - Kept in good state of repair
  - Protected or Removed
  - Information passed to relevant persons
See that these actions are carried out.
What to do with Asbestos on site? - Manage

- Label
- Encapsulate
- Remove
- Restrict Access
What to do with Asbestos on site? - Manage

**Identification of presence of asbestos**

- Suitable and sufficient assessment
- Prior to works
- Bulk sample or survey
- If doubt assume present
- Assume Crocidolite if unknown, therefore probably licensed

Asbestos Register
Bulk Sample
R & D Survey
What to do with Asbestos on site? - Assess.

Assessment of work
- Where employees will be exposed to asbestos
- Risk assesses work and record control measures
- Type and amount of exposure
- Medical surveillance where necessary
- Must consider all risks, not just asbestos
What to do with Asbestos on site? - Training.

Information, Instruction and training

A- Awareness
B- Non-licensed work
C- Licensed work

Employers have a duty to ensure as far as reasonably practicable that adequate training is given to non employees as well as employees who may be affected by the work.

Asbestos awareness training is not training to work with any forms of asbestos.
Recent Prosecutions
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Recent Prosecutions.

April 2016 - London

Two companies fined for disturbing AIB. No R&D survey, Known information not passed on. AIB stripped out without effective precautions and received significant exposure.

Firestone estates

Breached Regulation 10(1)(b) of CDM 2007,

fined £10000, £1020.64 costs and £1000 victim surcharge.

24-Hour Maintenance services Ltd

Breached Section 2(1) of HASAWA 1974

Fined £5000, £974.44 costs and £500 victim surcharge.
Recent Prosecutions.


Home improvement company removed AIB soffits from domestic property in an unsafe manor. Serious risk of exposing family of 4.

Not licenced to remove asbestos

Ace of Hearts Home Improvements Ltd

Breached R8(1) and R16 of CAR2012

Breached Section 33 (1) of HASAWA 1974 Failed to comply with Improvement Notice.

Fined £100,000 and Costs of £2,118.50
Recent Prosecutions.

February 2016 - East Midlands.

AIB disturbed at a school roof refurbishment works.

Failings in project management, failed to identify asbestos, failed to provide Asbestos Awareness Training.

Amey Community Ltd

  Breached Regulation 13(2) CDM 2007

  Fined £20,000 and costs of £1,737
Further Sources of Information

L143 Work with materials containing asbestos (CAR 2012)

Hidden killer campaign

www.hse.gov.uk/asbestos

www.LucionServices.com
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Any Questions?