



# Workers Guide to **action** on indoor workplace air pollution

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## 1. Why is indoor air pollution a workplace problem?

**Most people are aware that the polluted outdoor or ambient air we breathe can be bad for us and our families.** It contributes to a wide range of ill health and causes the equivalent of 40,000 premature deaths per year in the UK contributes to climate change and it needs cleaning up. Action being taken to reduce ambient air pollution and its unhealthy impacts includes cutting fossil fuel and wood burning, reducing traffic, replacing diesel and petrol cars with electric vehicles, Ultra Low Emissions Zones (ULEZ), and encouraging walking and cycling.

However, considering we spend 90% of our time indoors far less attention is given to the elephant in the room of the dirty air we breathe at work and it's not just about traffic fumes. Outdoor workers are directly affected but outdoor polluted air becomes indoor polluted air which is made worse by extra pollutants from the work activities, the building, the fixtures and fittings and the breath of the people inside. Indoor air can be 2-5 times more polluted than outdoor air. Polluting chemicals and substances in the form of gases, fumes, dust, biological agents and Particulate Matter (PM), will be inhaled/breathed in, and can cause serious short- and long-term illness including heart, lung and other organ disease, asthma, dementia, cancers, reduced life expectancy, damage to developing foetus and miscarriages.

In poorly ventilated workplaces, the exhaled air from people working or visiting causes a build-up of carbon dioxide which impairs concentration and thinking. The air in workplaces may also contain airborne pathogens in respiratory aerosols (particles) exhaled by the workers and public. These can then spread rapidly through the air causing outbreaks of illness – the cold/flu season every winter and now the Covid pandemic which continues to sicken and disable workers at a high rate. Tens of thousands of workers die each year due to these exposures to polluted workplace air and hundreds of thousands are made ill. The lower your income the more likely you are to live, commute to and work in polluted air. Workplace polluted air adds to external air pollution and climate change too so cleaning the air is an occupational health, justice, equality and climate change issue.

Action to reduce burning fossil fuels will lead to a reduction in greenhouse gases that fuel climate change and also cut air pollution inside the workplace. Workers need to make sure that health and safety concerns and air pollution impacts are assessed as part of environmental

risks and improvements in the workplace. The International Trade Union Confederation (ITUC) theme for **International Workers' Memorial Day** on 28 April 2024 is '*Climate risks for workers*' as extreme weather and changing weather patterns are affecting job security and health for workers [www.hazards.org/climate/badclimate.htm](http://www.hazards.org/climate/badclimate.htm)

The Hazards Campaign, Greener Jobs Alliance and UCU set up the Trade Union Clean Air Network, TUCAN, in 2018 to support action by workers fighting for cleaner air at work. Fourteen major trade unions joined TUCAN, developed a '*Clean Air Charter*', '*Guidance for safety reps*' and held training sessions around the country. We have shared ideas about reducing polluting toxic substance use at source, monitoring to make invisible pollutants especially microscopic particles and lack of ventilation, visible, and developing action to cut the effect of workplace air pollution on workers and others.

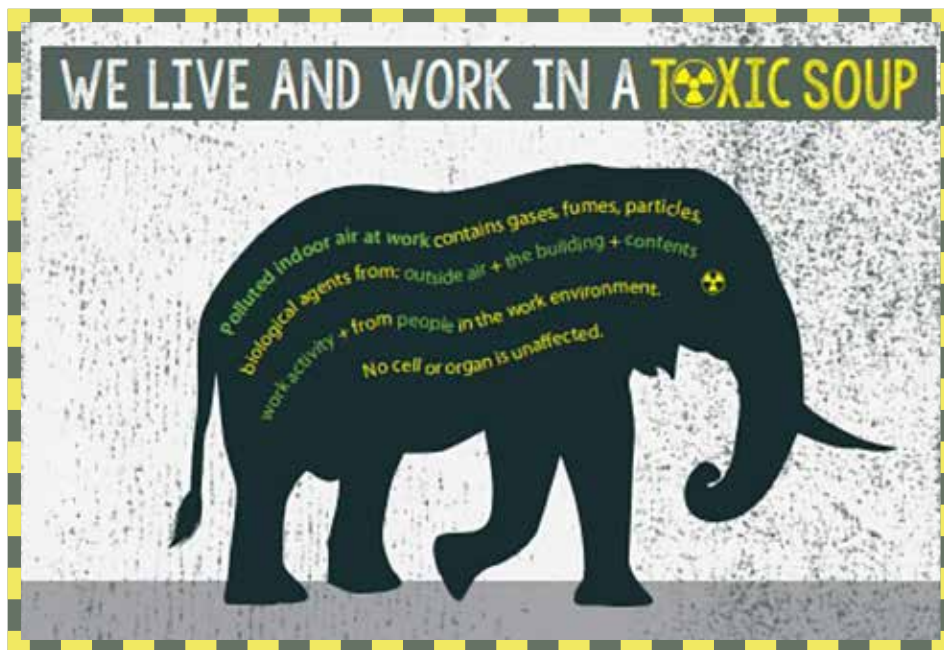
This guide shows the main sources of air pollution at work, their effects on health, how they can be eliminated or reduced, who has responsibility for acting to achieve that and making sure action is taken, what the law says (or doesn't!), and what union safety reps and workers can do to achieve healthier, cleaner air in workplaces.

**TUCAN Resources**  
[tinyurl.com/4vjf6p7z](http://tinyurl.com/4vjf6p7z)

**Air pollution – all in a day's work?**  
[tinyurl.com/4djt6kvv](http://tinyurl.com/4djt6kvv)

## 2. Where does **air pollution** at work come from?

The substances in indoor workplace air and the harm they cause



Chemical and substances exposures of workers in different workplaces.  
More information: [tinyurl.com/37tx652y](http://tinyurl.com/37tx652y)

### Chemical and substances exposures of workers in different workplaces

- **Outdoor workers** - exposed to air polluted by traffic and other workplace emissions.
- **All indoor workplaces** - the air comes from outdoors with its pollution unless it is filtered, buildings contain many materials which can shed fibres and dust particles and off-gas volatile organic compounds into the air; damp buildings can harbour fungal moulds, water systems may contain Legionella bacteria, fungal spores from mould growing on pigeon droppings, asbestos fibres may be shed from buildings built or refurbished before year 2000, people's exhaled air contains carbon dioxide and respiratory aerosols potentially containing viral, bacterial and fungal pathogens.
- **Offices and non-manufacturing workplaces** – plastic carpets, furniture and IT equipment can give off formaldehyde, flame retardants, plasticisers, microplastic particles, fumes from printers and photocopiers.
- **Food processing** – flour dust causes asthma in bakeries, other food materials/additives are respiratory irritants and sensitisers; cooking in restaurants, cafes, pubs and food markets can release gases as well as large amounts of PM2.5 into the air
- **Construction** – dust from stone, brick, wood/MDF silica, asbestos, glass fibre, micro and nano-plastics, fumes from solvents and paints and other materials
- **Manufacturing**- wood/paper/stone/package dust and plastic or chemical dust and fumes especially if the process requires cutting or forming with power tools or hot fusing by welding, metal cutting fluid biohazards.
- **Transport** - petrol, diesel and aviation fuel fumes and particles before and after combustion affect drivers and nearby workers; dust from wear of tyres, metal particles on tube, silica on railways
- **Maintenance and cleaning** - in all workplaces can release volatile organic compounds and particles
- **Grounds maintenance** – pesticides, mowing, strimming, leaf blowing, fuel fumes and biohazards
- **Health Care** – biohazards from patients, anaesthetic gases
- **Fire service** – products of combustion from fires, harmful chemicals in PPE and fire-fighting foams

### 3. Control of indoor workplace pollutants – the law, standards, & enforcement

#### The Law

**The Health and Safety At Work Act** makes it the legal duty of employers to provide a workplace as free from risks to the health safety and welfare of their employees and others who may be affected, as far as reasonably practical. *The Management of Health and Safety at Work Regulations* gives employers' specific duties to carry out a risk assessment and *The Control of Substances Hazardous to Health (COSHH)* Regulations puts a specific duty on employers to risk assess all substances-chemicals, fumes, dust, biological agents- and to prevent exposure of workers to substances that harm their health at work. There are also specific regulations covering exposure to asbestos and lead.

Under the COSHH regulations employers must:

**Identify** all substances used at, or arising in the course of, work– dust, fumes, gases, particulate matter, combustion and by-products, waste, biological agents

**Assess** their risks, and if they are hazardous to health - in short or long term e.g. carcinogenic, irritant, corrosive, asthmagenic, mutagenic, reproductive toxins, **then employers must use:**

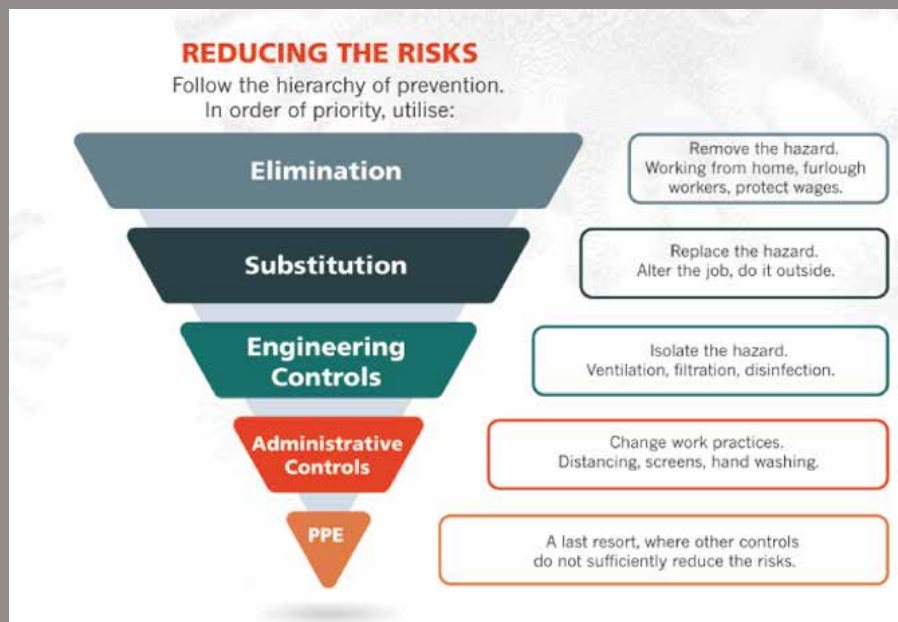
The COSHH Control Hierarchy:

**Eliminate or substitute with safer substances**

Only If this is not possible, then

**Use engineering & other controls** to prevent exposure of all workers— isolate, enclose, **Local Exhaust Ventilation** and **Only as a last resort** use Personal Protective Equipment suitable for hazard and the workers.

Diagram of Control Hierarchy



More detail and support in GM Hazards Centre website on

- **Eliminating Toxic Substances at work**  
[tinyurl.com/3jurcyxv](https://tinyurl.com/3jurcyxv)
- **Toxic Use Reduction**  
[tinyurl.com/2p9xhszd](https://tinyurl.com/2p9xhszd)

#### Standards and Exposure Limits

Workplace exposure limits, WELs, are set by EH40/2005 Workplace Exposure Limits which employers should ensure are not exceeded. But these are not safe levels just minimum legal standards. Many WELs are criticised by unions, health and chemical experts as set too high to fully protect workers' health. This includes the permitted level for carcinogens and for general dust/Particulate Matter as well as specific substances such as silica. The TUC says scientific evidence shows cancer, heart and lung disease can be caused by dust at half the permitted level which should be lowered. This is true of ambient air pollution limits which experts also accept causes ill health at legal exposures.

The International Agency for Research into Cancer (IARC)

Hazards Magazine Venting: Coronavirus risks are mostly up on the air  
[tinyurl.com/mvrv4fhv](https://tinyurl.com/mvrv4fhv)

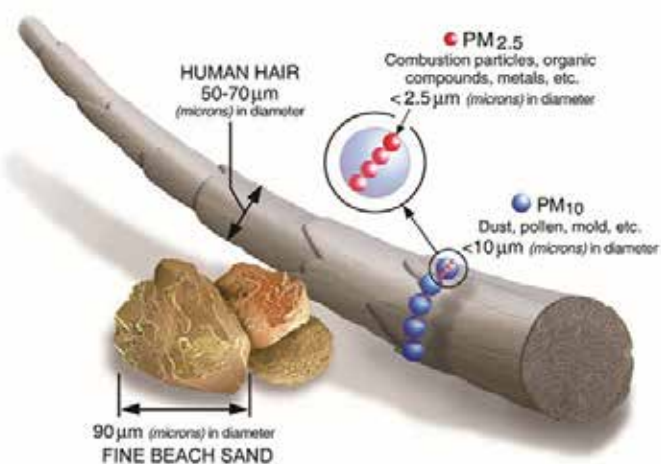
of the World Health Organisation, the global expert body on cancer, says that particulate matter and air pollution and other workplace chemicals can cause cancer. Experts accept that there is no lower level of exposure to any carcinogen that gives protection from the risk of developing cancer later. Zero exposure to a carcinogen is the only known, guaranteed defence against cancer risk. So, workplace exposure standards for carcinogens are not health based or safe, but targets for industry to try and achieve to reduce but not remove the potential risk. Campaigners have been fighting to change this unhealthy anomaly for very many years calling for all carcinogens to be removed from our workplaces. Most exposure standards to other potentially harmful substances are also based not on science or effects on health but on what industry was capable of achieving many years ago.

Whilst some standards have been improved, most have not, and also different standards apply for the same substances in different countries. The UK's record on this is very poor and our legal exposure standards should be noted but not automatically regarded as healthy without further investigation. Generally speaking, the current best exposure standards are likely to be from the WHO (where they exist) and we recommend you try and apply these. However please take into account what has already been said above and be aware that WHO standards do not apply directly to the UK unless we've adopted them – and if not, our standard is likely to be less healthy.

### **When it comes to particles, size matters: WHO says 'No safe level of PM 2.5'**

Particulate matter refers to everything in the air that is not gas but the Health and Safety Executive WELs only refer to dust and call general dust a nuisance. Dust at work is never just a 'nuisance, the harm caused depends on the substance and size of particles. Any particles in the air that are 100 microns (a micron = millionth of a metre) diameter or smaller can be inhaled. Larger particles are filtered out in the nose and throat where they can cause illness and damage the body's defence mechanisms. But PM10 and below get into the lungs and the smaller PM2.5 and

below get deep into the lungs, can be absorbed into the bloodstream and carried all around the body, to every cell and organ. They can cross the blood-brain barrier and cross the placenta into the foetus of a pregnant worker, harming development of the baby. In a workplace these particles can be made up of any of the chemicals/substances listed above including Covid and other pathogens in respiratory aerosols. Particles can also pick up and carry other chemicals and pathogens as they float invisibly through the air and linger like smoke to be inhaled by anyone in the room.



The COSHH Regulations define dust of any sort as harmful to health at concentration equal to or greater than 10 milligrams per cubic metre for Inhalable dust – particles 100 microns and below- and 4 milligrams per cubic metre for respirable dust - particles 10 microns and below. Some specific dusts will have lower WELs. Environmental exposure standards for outdoor/ambient air come under the Environmental Protection Act 1990. UK environmental pollution limits are set for nitrogen dioxide (NO<sub>2</sub>) Particulate Matter PM10 and PM2.5, ozone and some other substances.

COSHH workplace dust limits are not directly comparable to the legal PM limits for environmental air pollution. COSHH WELs are measured in milligrams per cubic metre over 8 hours while ambient outdoor air pollutants are measured in micrograms per cubic metre over 24 hours and measure different size particles. There are 1000 micrograms in 1 milligram so, for example, the HSE limit of 4 milligrams for respirable dust is equivalent to 4000 micrograms compared to the outdoor WHO exposure standard of 15 micrograms. The diagram below shows a rough comparison of

higher limit allowed in indoor workplaces. Clearly exposure indoors is not safer than outside. We argue that the workers should aim for the current best exposure standards and on nitrogen dioxide and Particulate Matter these are from the WHO guidelines for outdoor ambient air though they are not enforceable as they are not part of UK law.

**Hazards Magazine Dust Up:** [www.hazards.org/gallery/dustup.htm](http://www.hazards.org/gallery/dustup.htm)

**Ambient outdoor air pollution: legal levels for UK & safer WHO guidelines and COSHH WELs**

Pollutant	Averaging Time	UK Standards Outdoor	WHO Guidelines	UK WELs COSHH Regs
PM2.5 Micrograms/M <sup>3</sup>	Annual	20	5	
PM2.5 Micrograms/M <sup>3</sup>	24 Hour mean		15	No specific regulation
PM10 Micrograms/M <sup>3</sup>	Annual	40	15	
PM10 Micrograms/M <sup>3</sup> <i>respirable dust</i>	24 Hour mean	50 Exceeded Max 35 times a year	45	4,000 8 hour mean
NO <sub>2</sub> Micrograms/M <sup>3</sup>	Annual	40	10	
NO <sub>2</sub> Micrograms/M <sup>3</sup> Microgrammes = millionths of gram	24 Hour	200 Exceeded Max 18 times a year	25	960 8 hour mean

**Global Action Plan diagram**



hazards  
magazine

Air pollution should not be all in a day's work - Hazards magazine

[www.hazards.org/workandhealth/airforce.htm](http://www.hazards.org/workandhealth/airforce.htm)

**Enforcement of laws**

Workplace health and safety is enforced by the **Health & Safety Executive (HSE)** or **Local Authority Environmental Health Officers (EHOs)** depending on the workplace [tinyurl.com/yf2kmbrt](http://tinyurl.com/yf2kmbrt)

Ambient air pollution is enforced by the **Environment Agency** and **Local Authorities**. Some employers are not fully complying, by not identifying all harmful substances present and not reducing exposure according to the COSHH hierarchy of control, and the enforcement of COSHH Regulations by the HSE and L.A.s is weak and underfunded.

## 4. Workplace ventilation – air flow, the more the better

A good flow of fresh/purified can dilute, disperse, and remove pollutants and stale air to prevent them accumulating. But when incoming outdoor air is already polluted, as it is around many schools, hospitals, and other workplaces across the UK, then it contributes to indoor air pollution. Ventilation can be natural, via windows, doors, trickle bricks and vents, or mechanical via Heating Ventilation and Air conditioning systems (HVAC), of vents, pipes, pumps, and fans. Natural ventilation varies with the weather and is better when it's colder and windier, but as it makes people feel cold, it may be reduced by closing windows, doors, and vents to keep workers warm in winter, and is unlikely to be sufficient for crowded classrooms, offices or healthcare throughout the year.

Ventilation is measured in air flow of litres per second per person in the space, and as the number of Air Changes per Hour (ACH). WHO recommends a minimum ventilation of 10 litres per second per person and 6 ACH. Poor ventilation leads to a build-up of carbon dioxide (CO<sub>2</sub>) from the exhaled breath of the occupants and so the level of CO<sub>2</sub> can act as a proxy measurement for ventilation and can be monitored, usually measured as parts per million, ppm. The Covid pandemic has exposed how inadequate the ventilation is in many indoor workplaces in the UK as money is saved by recirculating air and preventing opening of windows, and HVAC system lack the necessary capacity.

The Workplace (Health, Safety and Welfare) Regulations 1992 'Regulation 6 Ventilation states that: (1) Effective and suitable provision shall be made to ensure that **every enclosed workplace is ventilated by a sufficient quantity of fresh or purified air.**'

The guidance to these regulations says: 'The fresh-air supply rate should not normally fall below 5 to 8 litres per second, per person (l/s/p). A value of 10 litres per second per person is recommended in many guides as a suitable value for most commercial buildings.' Carbon dioxide, CO<sub>2</sub>, monitors are a useful way to estimate airflow rates. The amount of CO<sub>2</sub> in the air is measured in parts per million (ppm). 1000ppm is equivalent to about 10 litres per second, per person. CO<sub>2</sub> levels consistently higher than 1500ppm in an occupied room indicate poor ventilation and you should take action to improve it.' [tinyurl.com/bdfkd3zx](https://tinyurl.com/bdfkd3zx)

Air Score	Volumetric flow rate per volume ACH – Air Changes per Hour equivalent	Volumetric flow rate per person Litres per sec per person l/s/p
Good	4	10
Better	6	14
Best	Over 6	Over 14

Lancet 'Designing infectious disease resilience into school buildings through improvements to ventilation and air cleaning' 2021 [tinyurl.com/bddb5dw](https://tinyurl.com/bddb5dw)

Many experts put the healthy level of ventilation far higher, especially to prevent spread of infectious airborne illnesses, they recommend 15 l/s/p which keeps the CO<sub>2</sub> level below 800ppm to reduce the risk of Covid transmission and for better health generally.

The Lancet Task force 'Proposed non-infectious air delivery rate for exposing exposure to airborne respiratory infectious diseases' recommends ventilation of minimum 10 litres 'fresh/purified air' per person per sec or 36 m<sup>3</sup> per person per hour, or 6 Air Changes per Hour as good, 14 litres/second/person is better and over 14 l/s/p is best.



Nous aerons - Let's air [nousaerons.fr/](https://nousaerons.fr/)

## 5. Making invisible pollution and ventilation visible by monitoring

To show that they are complying with health and safety at work law, employers should use qualified, competent Occupational Hygienists to sample and measure chemicals, substances, dust, and Particulate Matter in the air and ensure as a minimum they are below the WELs for inhalable and respirable dust. Employers should also check ventilation systems are providing the right number of litres per second per person and ACH, and that filters and extraction systems are maintained, most effective filters used and functioning properly. Ventilation levels can be checked and monitored via, ensuring CO<sub>2</sub> it is below 800 ppm which represents an air flow of about 10 l/s/p. Employers must inform safety reps and workers of this monitoring. But union safety reps can also use low-cost portable monitors to give an indication of pollution hotspots and health hazards areas to ask for more professional sampling and monitoring.

TUCAN and Global Action Plan have a pollution monitor which workers can be trained to use and borrow. Many workers have used it to assess their workplaces and convince their employers to act. Hazards Magazine 'Air pollution should not be all in a day's work' [tinyurl.com/3u3dh4te](https://www.tinyurl.com/3u3dh4te) shows use of the monitor in a logistics company leading to investment in improvements. Wandsworth Trade Unions launched action after monitoring showed excessively high levels of PM2.5, above 2,000 micrograms per cubic metre, at two markets in Tooting Markets where food is cooked. [tinyurl.com/2vws8s3w](https://www.tinyurl.com/2vws8s3w)



Example of monitoring using commercially available low-cost portable monitors.

Aranet monitor measures CO<sub>2</sub> plus temperature and relative humidity and the Smart Air Qingping monitor measures PM 2.5 and also PM10, CO<sub>2</sub> humidity and temperature. Review of monitors [breathesafeair.com/air-quality-monitor-reviews/](https://www.breathesafeair.com/air-quality-monitor-reviews/)

### Portable in room air filtration

Ventilation is essential but if it does not bring in sufficient fresh air for number of occupants and volume of space to dilute, disperse and reduce workers risk of exposure to pollutants, then air filtration can help. Where incoming outdoor air is polluted, then the most efficient Minimum Efficiency Reporting Value (MERV) filters possible should be fitted in the intake vents of the mechanical HVAC systems. Where work activities generate particulate matter/dust and/or many occupants present risk of infection spread, and the ventilation system cannot guarantee sufficient air flow, then portable High Efficiency Particulate Air (HEPA) filters can be used in the room. HEPA filters are guaranteed to remove 99.97% of 0.3 micron particles from the air, but in practice filter out smaller particles too.



Two commercial HEPA filters on right used to clean the air at the National Education Union conferences and DIY Corsi-Rosenthal MERV filter box on left which had been built as a demonstration in just 15 minutes. Making a DIY filter is an especially good Science, Engineering, Art and Maths (STEAM) project for teaching and learning in schools but also produces a filter that has a very high Clean Air Delivery Rate for cost compared to commercial filters, for instructions: [tinyurl.com/2s3a5mv8](https://www.tinyurl.com/2s3a5mv8) For how to select commercial HEPA filters with sufficient Clear Air Delivery Rate for the volume of room and number of occupants at as low noise levels as possible, see Clean Air Stars [cleanairstars.com/filters](https://www.cleanairstars.com/filters)



## 6. Actions workers & unions can take to **clean the air**, reduce pollution at work

The solutions to air pollution inside workplaces include cutting the use of harmful substances from work activities and in general air supply, eliminating or reducing exposures by enclosure, Local Exhaust Ventilation (LEV), better general ventilation and filtration. The aim is to reduce exposure to safest level which is zero or if unachievable then the lowest level possible, WHO or other health-based standards. Make the case to your employer that cleaning the air at work leads to better worker health, concentration and productivity, and can save employers' money by reducing sickness absence, disruption to production or services and can help achieve Net Zero Carbon targets.

Action to reduce burning fossil fuels will lead to a reduction in greenhouse gases that fuel climate change and also cut air pollution inside the workplace. Other climate changes like excessive temperatures will have a negative impact on air pollution risks. For example, the hotter you are the more air you breath in. Higher temperatures can also contribute to the build-up of potentially harmful volatile pollutants and ozone. Workers need to make sure that health and safety concerns and air pollution impacts are assessed as part of environmental risks and improvements in the workplace. See Hazards Magazine Bad Climate: '*Climate risks for workers*' shows extreme weather and changing weather patterns are affecting job security and health for workers [www.hazards.org/climate/badclimate.htm](http://www.hazards.org/climate/badclimate.htm)

### Remember:

- Responsibility for acting on workplace pollution lies with the employer or employers in a shared building and any arrangements they may have with the landlord if they do not own the property.
- Some employers have a health and safety committee to discuss potential issues and how to resolve them.
- Workers should be consulted about their health and safety, be given information about risk to their health and safe systems of work to prevent this.
- People at work are safer in a trade union and more likely to convince employers and landlords to act positively if they act together in a union – not guaranteed but definitely more likely.
- If there is no union present at your workplace you can raise any issues with your colleagues and take them to your employer but be aware - a good employer will take your concerns seriously and may look into making improvements but a not so enlightened employer may not appreciate your pointing the issue out or need a more careful approach.
- Where a trade union has a recognition agreement with an employer they have the right in law to appoint health and safety representatives to represent the workers interests and formally raise their concerns with the employer who is required to treat those concerns seriously and abide by the Safety Reps and Safety Committees Regulations: [www.tuc.org.uk/sites/default/files/BrownBook2015.pdf](http://www.tuc.org.uk/sites/default/files/BrownBook2015.pdf)

## 1. Action: Find out what you are exposed to and what harm it might be causing and what employers are doing to prevent it

- Talk to colleagues to see if they are suffering any ill-effects related to their work, are these related to specific areas/jobs? Hazards Magazine Body/Hazards mapping [www.hazards.org/diyresearch/bodymapping.pdf](http://www.hazards.org/diyresearch/bodymapping.pdf)

### Ask employers:

- What is in the air, how much are workers exposed to? Ask for air monitoring results, sickness absence records
- Have suitable and sufficient COSHH assessments been done for all jobs and all substance use/production systems for workers exposure to pollution? – including cleaning, maintenance, driving, outdoor work – and measures taken to reduce exposure?
- Have they considered and implemented all options for elimination, safe substitution, Local Exhaust Ventilation and enclosure for specific polluting work activities, to keep exposures absolutely as low as possible, not just to the minimum legal standards?
- Are effects of sex, gender, disability, other equality issues on effects of exposures considered?
- Is any waste material collected and disposed of in a safe manner that eliminates production of airborne pollutants, e.g. using HEPA filtered vacuum cleaners not brushing?
- Do photocopiers, printers, laser cutters, 3D printers and other fumes emitters have LEV/extra ventilation?
- Are petrol/diesel vehicles in use at your workplace in an enclosed space? Is there mechanical or natural ventilation in that space? Can they be replaced by electric vehicles?
- Will they provide monitors for substances, PM10 and PM 2.5 and CO<sub>2</sub> to check systems are working?
- If they won't, then consider some DIY monitoring, contact TUCAN for information.
- **Use Greater Manchester Hazards Centre website on Eliminating Toxic Substances at work** [tinyurl.com/3jurcyxv](http://tinyurl.com/3jurcyxv)

## 2. Action: Check ventilation systems provides sufficient air flow and whether additional filtration is needed. Use ventilation audit for good questions [tinyurl.com/9wvrzc8c](http://tinyurl.com/9wvrzc8c)

- Check outdoor pollution on Local Authority [uk-air.defra.gov.uk/interactive-map](http://uk-air.defra.gov.uk/interactive-map) and other monitoring websites address pollution [addresspollution.org/](http://addresspollution.org/) for outdoor air contribution to indoor pollution
- Is ventilation system – natural or mechanical - HVAC?
  - If mechanical, does it avoid recirculation of existing air by bringing in new air from outside, and is it regularly maintained?
  - If natural ventilation – windows, doors, trickle brick/vents – are these kept clear?
- Has ventilation system been tested to ensure it provides enough litres of 'fresh/purified air' per person per second to keep CO<sub>2</sub> below 800ppm? Is CO<sub>2</sub> monitored?
- Are highest rating Minimum Efficiency Reporting Value, MERV, filters installed in HVAC system and/or portable HEPA units in rooms, to remove PM10, PM 2.5 and monitored to check systems are working?

### 3. Action: How is transmission of infectious airborne diseases prevented?

Covid and other infections– influenza, colds, measles, RSV, TB – plus other bacteria, viruses and fungi can be spread through the air and cause severe short and long term ill-health

- Are people told to stay home if they feel unwell and/or are coughing and sneezing?
- Is there a viable sick pay scheme in place to enable isolation?
- Is the ventilation, filtration system effective enough to reduce airborne transmission?

### 4. Action: Respiratory Personal Protective Equipment PPE

- If needed, are the correct respiratory PPE FFP2/3 masks provided, fit-tested and users trained?
- Is PPE free from harmful chemicals?
- Is there a system in place for provision of fresh PPE, cleaning, maintenance and safe disposal of used PPE?

## Find out more

For more information and on-line training sessions contact **Trade Union Clean Air Network (TUCAN)** [janet@gmhzards.org.uk](mailto:janet@gmhzards.org.uk) *There will also be a film and Campaign Briefing paper on indoor pollution with political demands.*

- TUCAN Resources: [tinyurl.com/4vjf6p7z](https://tinyurl.com/4vjf6p7z)
- Air pollution –all in a day’s work? [tinyurl.com/4djt6kvv](https://tinyurl.com/4djt6kvv);
- Greater Manchester Hazards Centre Eliminating Toxic Substances: [tinyurl.com/3jurcyxv](https://tinyurl.com/3jurcyxv)
- Consult your own union for relevant guidance
- Hazards Campaign Clean air resources: [/tinyurl.com/3zra3eka](https://tinyurl.com/3zra3eka)

## Useful Organisations:

- HSE [www.hse.gov.uk](http://www.hse.gov.uk)
- Greener Jobs Alliance: [greenerjobsalliance.co.uk](http://greenerjobsalliance.co.uk)
- Hazards magazine [www.hazards.org](http://www.hazards.org)
- Hazards Campaign: [www.hazardscampaign.org.uk](http://www.hazardscampaign.org.uk)
- Chartered Institute of Building Service Engineers: [www.cibse.org](http://www.cibse.org)
- British Council for Offices **BCO - British Council for Offices**

