Exhaust fumes from moving vehicles

General ventilation

Workplace and access
- Motor vehicle exhaust can reach high levels in confined and congested places.
- Typical places include indoor go-kart tracks, underground car parks, ro-ro ferries etc.
- You need alarms fitted.
- Mark out safe pedestrian routes.

Design and equipment
- You need an air supply that is designed to keep carbon-monoxide concentrations below 200 ppm at the busiest times.
- Install carbon-monoxide monitors linked to a visual and audible alarm, to trigger at 200 ppm. Make sure this cannot be mistaken for a fire alarm.
- Warn drivers to turn off their engines immediately if the carbon-monoxide alarm sounds.
- Provide a supply of fresh air to staff (e.g., tollbooth operators, supervisors etc.) - 5 to 10 air changes per hour.

Procedures
- Test alarms regularly - at least once a week.
- Advise people to turn off their engine if the queue out of the car park stops moving. Consider printing this message on tickets.

Maintenance
- Keep equipment in effective and efficient working order.
- If you think the ventilation or alarm is faulty, get it repaired immediately.
Examination and testing
✓ At least once a week, check visually that the ventilation is clearing the fumes properly.
✓ Get a competent ventilation engineer to examine the system thoroughly and test its performance regularly.
✓ Arrange for an expert to check the alarm calibration at least once every six months.
✓ Call in the system engineer if you suspect the calibration is faulty.
✓ Keep records of all examinations and tests for at least five years.

Personal protective equipment (PPE)
✓ Respiratory protective equipment (RPE) should not be needed if the extraction and ventilation are working properly.

Training
✓ Show your staff this sheet and check that they understand it.
✓ Train staff on how to tell clients about the risks.

Further information
- Health and safety consultants: the BOHS Faculty of Occupational Hygiene keeps lists of qualified hygienists who can help you. Contact BOHS on 0133 229 8087 or at www.bohs.org/

Employee checklist
☐ Check visually that exhaust fumes are clearing properly and that the alarm sounds when you expect it to.
☐ If you find any problems, tell your supervisor. Don't just carry on working.
☐ Never clean your hands with concentrated cleaning products, solvents or fuel.