Respiratory protective equipment (RPE)

Access and premises
 ✓ Only allow access to authorised staff.

Equipment
 ✓ Provide RPE.

Procedures
 ✓ Make sure that workers check their RPE works properly every time they put it on.
 ✓ Visually check compressed gas and air lines for signs of damage before use.
 ✓ Remove grease and all surface coatings first, unless they are meant to be welded or cut through.
 ✓ For work outdoors, work upwind of the fume.
 ✓ Arrange work so that the worker’s head is out of the fume.
 ✓ Check for gas leaks.

Maintenance, examination and testing
 ✓ It is vitally important to maintain RPE in effective and efficient working order.
 ✓ Follow the instructions in the manual.
 ✓ If any equipment is faulty, stop work until it is repaired.
 ✓ Make sure that users examine their RPE and test it works properly before each use.
 ✓ Examine and test RPE thoroughly at least once every three months.
 ✓ Check the airflow and air quality to air-fed RPE at least once every three months or before use. Ensure that compressors take in only clean air.
 ✓ Keep records of all examinations and tests for at least five years.
 ✓ Review records - failure patterns show where preventative maintenance is needed.
 ✓ If hot work involves cadmium, seek advice on biological monitoring - see ‘Useful links’.

Personal protective equipment (PPE)
 ✓ Ask your safety equipment supplier to help you get the right PPE.
 ✓ Provide storage for clean and contaminated PPE.

Respiratory protective equipment (RPE)
 ✓ RPE is always needed.
Provide a powered or air-fed welding helmet that suits the wearer, the job and the work environment.

For more heavy duty work, use a compressed air-line helmet to BS EN 270 standard. See sheet R5.

For normal work, use a type LDH2 air-line helmet to BS EN 1835 standard or type TH2 powered filtering helmet to BS EN146/EN12942. See sheet R3.

For short-term tasks, type P3 high-efficiency disposable RPE is acceptable.

Could there be a confined space? If so select air-line RPE.

Make sure all RPE is properly fit-tested - get advice from your supplier.

Make sure that workers check their RPE works properly before use.

Replace RPE filters as recommended by your supplier. Throw away disposable masks after one use.

Keep RPE clean and store it away from dust.

**Other protective equipment**

Provide and ensure that workers use flame-resistant overalls and protective gloves.

Use a properly equipped contract laundry or a suitable equivalent to wash work clothing.

Skin creams help in washing contamination from the skin. After-work creams help to replace skin oils.

**Caution: Never allow use of compressed air for removing dust from clothing.**

**Health monitoring**

You should consider health monitoring. See sheet G401.

Consult an occupational health professional - see ‘Useful links’.

**Cleaning and housekeeping**

Keep the work area clean and free of combustible materials.

Dispose of hazardous wastes safely.

**Training and supervision**

Tell workers that fume from welding and cutting can cause serious lung diseases.

Working in the right way and using the controls correctly is important for exposure control. Train and supervise workers. See sheet WL0.
Employee checklist

☐ Do you know how to use the controls properly?
☐ Is your RPE working properly?
☐ Check the RPE clean air supply.
☐ Use, maintain and store your protective equipment in accordance with instructions.
☐ Look for signs of leaks, wear and damage.
☐ If you find any problems, tell your supervisor. Don’t just carry on working.
☐ Co-operate with health monitoring.
☐ Wash your hands before eating, drinking, or using the lavatory.
☐ Never clean your hands with solvents or concentrated cleaning products.
☐ Use skin creams provided as instructed.

Further information

- Respiratory protective equipment at work: A practical guide
- The safe use of compressed gases in welding, flame cutting and allied processes HSG139 HSE Books 1997 ISBN 0 7176 0680 5
- Health and safety in arc welding HSG204 HSE Books 2000 ISBN 0 7176 1813 7
- Hot work on small tanks and drums Leaflet INDG314 HSE Books 2000 (single copy free or priced packs of 10 ISBN 0 7176 1766 1)
- Safe work in confined spaces Leaflet INDG258 HSE Books 1997 (single copy free or priced packs of 20 ISBN 0 7176 1442 5)
- For environmental guidelines see sheet WL0

Useful links

- Your trade association may advise on health and safety consultants and training providers.
- For information about health and safety, or to report inconsistencies or inaccuracies in this guidance, visit www.hse.gov.uk/. You can view HSE guidance online and order priced publications from the website. HSE priced publications are also available from bookshops.
- Contact the British Occupational Hygiene Society (BOHS) on 01332 298101 or at www.bohs.org for lists of qualified hygienists who can help you.
- Look in the Yellow Pages under ‘Health and safety consultants’ and ‘Health authorities and services’ for ‘occupational health’.
- Also see www.rhsplus.nhs.uk.
- Biological monitoring - contact the Health and Safety Laboratory (HSL) e-mail hslinfo@hsl.gov.uk, or other service laboratories.

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