

M505– Control of Hazardous Substances

PPE PRACTICAL SESSION – EQUIPMENT LIST AND NOTES FOR LECTURERS

1. Fit Checking and Qualitative Fit Testing

Fit check poster

FT 10 Saccharin Fit Test Kit

Disposable style respirators (P1 or P2 plus non approved types)

Reusable style of respirator fitted with particulate filters

Respirator cleaning wipes

Isoamyl acetate or any other suitable non toxic smelling agent e.g perfume.

NOTE

Also demonstrate the ineffectiveness of non approved respirators ie test agent (saccharin) passes straight thru and that gases and vapours (isoamyl acetate) passes straight through a particulate filter.

2. Quantitative Fit Test

TSI Portacount Instrument

Disposable style respirators (P2 or N95)

Reusable style of respirator fitted with particulate filters (P2 or N95)

Respirator cleaning wipes

3. Gas and Vapour Service Life Calculator)

A Service Life is available from the 3M web site at

http://solutions.3m.com/wps/portal/3M/en_US/Health/Safety/Resources/Four/?view=2

NOTE

This calculator can only be used for 3M cartridges as the properties of the particular carbons used by 3M will be different to those used by other manufacturers.

Once a contaminant is chosen it subsequently “defaults” to a range of correct cartridges

Demonstrate the use of the Software for a range of different organics, organics plus inorganics.

Demonstrate the effect of breathing or work rates of Service Life.

4. Fluorescein

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Fluorescein

A range of gloves surgical, washing up, PVC, Nitrile etc

UV Light Source

Fluorescein dye fluoresces under UV Light and can be used to show for example:

- the choice of the wrong type of protective clothing will allow the contaminant to pass through to the skin
- how people can contaminate themselves when removing their gloves or other garments
- the effectiveness or ineffectiveness of the application of barrier creams