

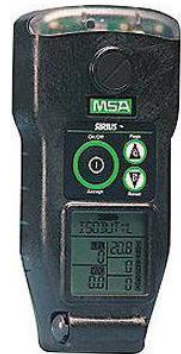
Title of Training	VOC (Volatile Organic Compound) Gas Meters	
Equipment Info.	MAKE/TYPE/SIZE/MODEL	BW Micro 5, MSA Sirius PID, Ultra Rae 3000
Material Needed	OPERATORS/EQUIPMENT MANUAL	Hard Hat, Safety Glasses, Work Boots, Hearing Protection

VOC Gas Meter Training

Volatile Organic Compounds (VOC) are gasses which are emitted from certain liquids or solids contained in thousands of materials ranging from household products to industrial processes. The nature of our work within the refineries and chemical processing plants may potentially expose us to such compounds. Of which, may include but not limited to: Benzene, Toluene and Xylene. **(Please refer to Section 36, Benzene Exposure, in the Brieser Safety and Health Manual)**. Brieser employs 3 different monitors that detect these gases. You have the choice of using a gas meter that reads VOC's as well as four other gasses (O2, CO2, LEL, H2S), or just the VOC by itself. These meters have the ability for us to choose which VOC gas we are targeting and can be set up to read such gases. This requires the trained user to setup additional settings within the menu of the monitor. This is all explained in the user manuals.

Currently Brieser Construction uses 3 different meters that will detect VOC's. They are:

MSA Sirius PID- Detects VOC and 4 gases



BW Gas Alert Micro 5 PID- Detects VOC and 4 gases



Ultra Rae 3000- Detects VOC Only



Trainee Name (print)		Signature of Trainee	
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These devices are used to monitor our exposure to VOC gasses we may encounter while performing duties on our job sites. They are also used as a warning device when the user's exposure reaches occupational exposure limits. Correct maintenance and training on these units, such as understanding what VOC we are targeting, bump testing, calibration, and understanding the monitors display readout and audible alarms are paramount to safely assessing the hazard and permissible exposure limits allowed. Specific instruction on the unit being used will be administered as needed.

Read Operators Manual for specific model before use.

Detector Maintenance

To accurately measure and protect the health and safety of the individuals using them, these units are dependent upon daily or before use bump testing and periodic calibration tests and must be properly maintained. Here is the schedule for the bump testing and calibrating of these monitors:

- Bump test daily or as indicated by the manufacturer or customer recommendations (whichever is less)
- Calibrate every 30 days. This insures that the sensors inside of the unit are functioning as designed. All 3 monitors are different in their procedure for calibration, the MSA has a Calibration Stand that is automated, while the BW and the Ultra Rae are done manually. Specific instruction will be given at time of training as well as review of Operators Manual.



Always keep the monitor as clean as possible and away from dust and moisture. If a tube and wand are attached, keep the end of the wand out of debris and water so the pump is bringing in clean air to the sensors. Submerging the wand or hose in water will most definitely ruin the monitor.

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The permissible exposure over an 8-hour work day is defined as the TLV TWA or Threshold Limit Value Time Weighted Average. The TLV TWA for Benzene is .5 ppm. The STEL or Short-Term Exposure Limit is defined as a 15 minute exposure. The STEL for Benzene is 2.5 ppm. As stated previously, refer to Section 36 of the Safety and Health Manual, where you will find additional exposure information. Remember, always review the Safety Data Sheets for the chemical you may be exposed to, seek professional guidance when you are unsure and always select the appropriate PPE.

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EQUIPMENT TRAINING

Name (Please Print)	Employee Signature	Trade	Job Title

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