

NEW SECTION

**WAC 296-62-135 Oxygen deficient atmospheres. (1) Definition.**

A lack of sufficient oxygen is deemed to exist if the atmosphere at sea level has less than 19.5% oxygen by volume or has a partial pressure of oxygen of 148 millimeters of mercury (mm Hg) or less. This may deviate when working at higher elevations and should be determined for an individual location. Factors such as acclimatization, physical conditions of the persons involved, etc., must be considered for such circumstances and conditions.

**(2) Entering areas with possible oxygen deficient atmospheres.**

Workers entering any area where a lack of sufficient oxygen is probable shall be supplied with and shall use approved equipment (for specific requirements see applicable provisions of chapters 296-62, 296-307 (Part-U3), 296-809 and 296-841 WAC) capable of providing safe respirable air, or prior to entry and at all times when workers are in such areas a sufficient supply of safe, respirable air shall be provided. All workers so exposed shall be under constant observation. If the oxygen content is unknown or may change during occupation, tests shall be required prior to and during occupation of questionable areas.

NEW SECTION

**WAC 296-62-136 Ventilation.**

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**WAC 296-62-13605 Definition.** Ventilation shall mean the provision, circulation or exhausting of air into or from an area or space.

(1) "**Local exhaust ventilation**" shall mean the mechanical removal of contaminated air from the point where the contaminant is being generated or liberated.

(2) "**Dilution ventilation**" means inducing and mixing uncontaminated air with contaminated air in such quantities that the resultant mixture in the breathing zone will not exceed the permissible exposure limit (PEL) specified for any contaminant.

(3) "**Exhaust ventilation**" means the general movement of air

out of the area or permit-required confined space by mechanical or natural means.

(4) "**Tempered make-up air**" means air which has been conditioned by changing its heat content to obtain a specific desired temperature.

NEW SECTION

**WAC 296-62-13610 Ventilation guide.** In addition to those mandatory controls as set forth in WAC 296-62-11019, chapter 296-818 WAC, Abrasive blasting, chapter 296-835 WAC, Dipping and coating operations (dip tanks), the *Industrial Ventilation Manual of Recommended Practices* as compiled and approved by the American Conference of Governmental Industrial Hygienists, applicable ANSI Standard or other National Consensus Standards recommended by the federal government, should be used as a guide for ventilation requirements.

NEW SECTION

**WAC 296-62-13615 Adequate system.** Adequate ventilation systems shall be installed as needed to control concentrations of airborne contaminants below applicable threshold limit values.

NEW SECTION

**WAC 296-62-13620 Exhaust.** Exhaust from ventilation systems shall discharge in such a manner that the contaminated air being exhausted will not present a health hazard to any workman or reenter buildings in harmful amounts.

NEW SECTION

**WAC 296-62-13625 Make-up air quantity.** Make-up air shall be of ample quantity to replace the exhausted air and shall be tempered when necessary.

NEW SECTION

**WAC 296-62-13630 Design and operation.** Ventilation systems shall be designed and operated in such a manner that employees will not be subjected to excessive air velocities.

NEW SECTION

**WAC 296-62-13635 Compatibility of systems.** Make-up air systems shall be designed and operated in such a manner that they will not interfere with the effectiveness of the exhaust air system.