WAC 296-307-61605  Make sure breathing air and oxygen meet established specifications.

You must:

1. Make sure that all SCBAs and air-line respirators are provided with safe breathing air and oxygen according to the following:
   - Compressed breathing air must meet the following specifications for Grade D air:
     - Oxygen (volume/volume) within 19.5-23.5%
     - Hydrocarbon (condensed): NO MORE than five milligrams per cubic meter of air
     - Carbon monoxide (CO): NO MORE than ten parts per million (ppm)
     - Carbon dioxide (CO2): NO MORE than 1,000 ppm
     - No noticeable odor

   Reference: See the American National Standards Institute - Compressed Gas Association Commodity Specification for Air (G-7.1.1989) for more information. Contact your local library to access a copy.

2. Make sure the moisture content of the air supplied meets the following:
   - Air supplied to respirators from cylinders must NOT exceed a dew point of -50°F (or -45.6°C) at 1 atmospheric pressure.
   - Compressor supplied air must NOT exceed a dew point of 10°F (or 5.56°C) BELOW the use temperature at 1 atmospheric pressure.
   - Cylinders obtained from a supplier of breathing air must have a certificate of analysis that verifies each cylinder's contents meet Grade D and dew point standards.
   - Compressed and liquid oxygen must meet the United States Pharmacopoeia requirements for medical or breathing oxygen.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-01-166, § 296-307-61605, filed 12/21/04, effective 4/2/05.]