

Summary of Indoor Motorsports Arena Rules

EFFECTIVE 5/20/2013

Applicability

All indoor motorsports arenas where internal combustion engine-powered vehicles are used for recreation, racing, competition or demonstration.

Acceptable Air Quality

Arenas are required to maintain acceptable air quality throughout the arena building when open to the public. Acceptable air quality limits (one-hour average) are:

- Carbon monoxide (CO) \leq 30 ppm
- Nitrogen dioxide (NO₂) \leq 0.3 ppm

Certification

- All existing motorsports area must apply for certification annually from MDH.
- Event managers must apply for a certification at least 30 days prior to the start of a special indoor motorsports event.
- The certificate must be posted in a location visible to the public.

Training Requirements

At least one trained responsible person must be on-site in the arena building when open to the public. Training shall be provided annually and be documented.

Measuring Air Quality

Certified Arenas

- CO levels need to be measured at least two days per week during maximum motorsport activity.
- At least 3 hours of testing must be logged per week. Measurements must be recorded at least every 15 minutes.
- Nitrogen dioxide (NO₂) must be measured if directed by MDH.

Special Events

- CO levels need to be measured each day of the event during operating hours.
- Nitrogen dioxide (NO₂) must be measured as directed by MDH.

Location of Measurements

- If the motorsport participants are not paid performers, measurement must be made on the track where average CO levels are the highest.
- If spectators are present, readings must be made in the location of the poorest air quality in the spectator area of the arena.

Air Testing Equipment

Electronic monitoring devices are permitted without special approval from MDH, provided they meet the criteria stated in the rule. All air monitoring equipment must be stored, used and calibrated according to manufacturer’s specifications.

When CO and/or NO₂ Levels are High

If air quality in the arena exceeds 30 ppm CO and/or 0.3 ppm NO₂, arena staff must take corrective action. The action will depend upon the amount of time out of compliance.

CO and/or NO₂ levels high for **15 minutes**:

- Immediately increase ventilation rate

CO and/or NO₂ levels high for **60 minutes**:

- Suspend combustion engine use

Whenever unacceptable air quality is measured, follow-up testing must be formed and documented. Please reference the Motorsports Exceedance Report factsheet for more information.

Evacuation Conditions

An area of the arena building must be evacuated if any of the following conditions are present:

Contaminant	Reading	Elapsed Time
CO	> 83 ppm	> 15 minutes
CO	> 30 ppm	> 120 minutes
NO ₂	> 2.0 ppm	> 15 minutes
NO ₂	> 0.3 ppm	> 120 minutes

If evacuation is necessary, the arena must contact the local fire department for assistance and notify MDH.

The evacuated area can only be re-occupied when:

- Acceptable air quality conditions are measured,
- Corrective actions have been taken to prevent re-occurrence of unacceptable conditions, and
- MDH or the fire department has verified acceptable air quality conditions and corrective measures.

Recordkeeping

Arenas must maintain a recordkeeping log and keep it in the building. This log must be made available for MDH and the public to review at all times the arena building is open to the public. Required documents include:

- Training records
- Air quality measurement logs
- Air testing equipment maintenance logs

All documents must be retained for 3 years.

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