

# AIR QUALITY CONSTRUCTION PERMIT 101

## Iowa Air Quality Regulations

- All new or modified equipment and control equipment that emits air pollutants must have a construction permit unless the equipment is otherwise exempt.



Air quality regulations are regulated by the Clean Air Act. Managed nationally by the U.S. Environmental Protection Agency and in Iowa by the Iowa Department of Natural Resources Air Quality Bureau to control air pollution and protect public health and public welfare.

### REGULATED AIR POLLUTANTS

- Carbon Monoxide (CO)
- Particulate Matter (PM, PM<sub>10</sub> and PM<sub>2.5</sub>)
- Hazardous Air Pollutants (HAPs)
- Lead (Pb)
- Nitrogen Oxides (NO<sub>x</sub>)
- Sulfur Dioxide (SO<sub>2</sub>)
- Volatile Organic Compounds (VOCs)

### COMMON EMISSION SOURCES

- Paint Booths
- Welding Operations
- Combustion Sources
- Material Handling
- Abrasive Blasting
- Material Drying
- Plasma/Laser Cutting
- Grain Handling
- Concrete Batching
- Aggregate Processing

## Common Permit Exemptions

There are permitting exemptions for many types of sources listed in the Iowa Administrative Code (IAC). See 567 IAC Chapter 22.1 (2) for a complete list of exemptions and requirements.

- Direct fired equipment burning natural gas <10 million btu/hr
- Direct fired equipment burning fuel oil <1 million btu/hr
- Non-production equipment or equipment vented indoors used for cutting, machining, sawing, grinding, shot/sand blasting, etc.
- Manually operated equipment used for a variety of purposes
- Indoor vented powder coating equipment with filters
- Welding with various usage limitations



*Permits need to be applied for and issued before construction begins.*



*If your process or equipment is not specifically listed as exempt, flip over for permit options.*

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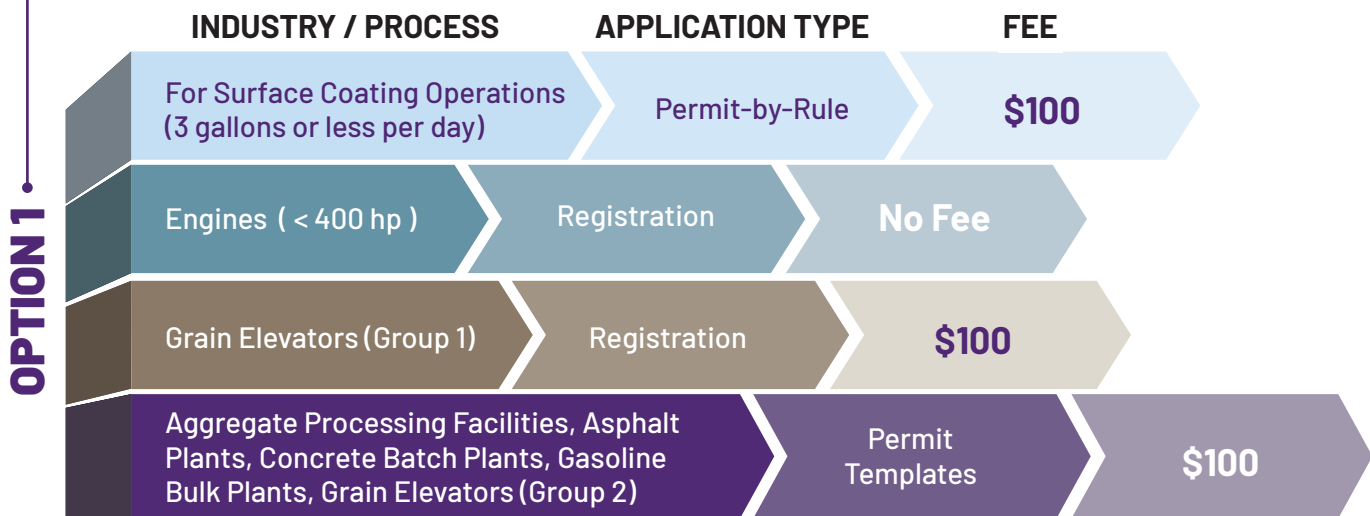
## Small Unit Exemption (SUE)

Included within the list of exemptions in the IAC, a small unit exemption can be used by any emission unit and associated control (if applicable) with emissions below DNR SUE ton per year thresholds for the regulated air pollutants. A SUE justification document must be signed and kept on site but does not need to be submitted to DNR. See 567 IAC 22.1(2) for more information.



If your process or equipment does not qualify for an exemption, use one of the following options to comply with permitting requirements.

## Industry / Process Specific Applications



## General Permit Application

(If option 1 does not apply, this process should be used.)



## Available Forms, Resources, Tools and Assistance

**IOWA DNR**  
 iowacleanair.gov  
 1-877-AIR-IOWA  
 (1-877-247-4692)

**IOWA AIR EMISSIONS ASSISTANCE PROGRAM**  
 iwrc.uni.edu/iaeap  
 319-273-8905  
*\*Available to provide free assistance to Iowa facilities with less than 100 employees.*

The Iowa Air Emissions Assistance Program is funded by the Iowa Department of Natural Resources. This information is intended solely as guidance, cannot be used to bind the Iowa Department of Natural Resources and is not a substitute for reading applicable statutes and regulations.