



# OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502

Telephone: (360)-539-7610 – Fax: (360)-491-6308

[www.orcaa.org](http://www.orcaa.org)

## FORM 19

Fill out all the applicable equipment information requested below and submit the appropriate fees.

### Welding

#### Shop Information

<b>Business Name:</b>	<b>Contact Person:</b>
	<b>Phone Number:</b>
	<b>Email:</b>
<b>Operating Schedule:</b> hrs/day, days/wk, wks/yr	<b>Indicate days when operating:</b> M T W Thu F Sat Sun

#### Welding Operation Information

<b>Type:</b>	<input type="checkbox"/> Existing Stationary Source	<input type="checkbox"/> Temporary Source	<input type="checkbox"/> New Stationary Source
<b>NAICS Code(s):</b>			

#### Welding Information

<b>Type:</b>	<input type="checkbox"/> Flux Cored Arc	<input type="checkbox"/> Orbital/Tube Arc	<input type="checkbox"/> Gas Tungsten Arc
	<input type="checkbox"/> Gas Metal Arc	<input type="checkbox"/> Shielded Metal Arc	<input type="checkbox"/> Oxy-Fuel
	<input type="checkbox"/> Plasma Arc	<input type="checkbox"/> Submerged Arc	<input type="checkbox"/> Solid-State
	<input type="checkbox"/> Laser or Electron Beam	<input type="checkbox"/> Resistance	<input type="checkbox"/> Other (explain in attachment)
<b>Equipment Type:</b>	<input type="checkbox"/> Spot Welder(s)	<input type="checkbox"/> Arc Welder(s)	<input type="checkbox"/> Lasers
	<input type="checkbox"/> Beam Welder(s)	<input type="checkbox"/> Steam Welder(s)	<input type="checkbox"/> Other (explain in attachment)
<b>Fume Control Methods:</b>	<input type="checkbox"/> Enclosure (i.e. Tent, Room, Booth or Cabinet)	<input type="checkbox"/> Water Curtains	<input type="checkbox"/> Building Ventilation System
	<input type="checkbox"/> Portable Fume Extractor	<input type="checkbox"/> Drapes	<input type="checkbox"/> None
	<input type="checkbox"/> Wall Fan(s)	<input type="checkbox"/> Other (explain in attachment)	
<b>Exhausts to Outdoors:</b>	<input type="checkbox"/> Yes, fill out exhaust information <input type="checkbox"/> No		

#### Enclosure Information

<b>Type:</b>	<input type="checkbox"/> Fully enclosed	<input type="checkbox"/> Closed top open front (CTOF)				
	<input type="checkbox"/> Open table/bench	<input type="checkbox"/> Other (explain in attachment)				
<b>Exhaust:</b>	<input type="checkbox"/> Side Wall	<input type="checkbox"/> Pit/Trench Design	<input type="checkbox"/> Ceiling	<input type="checkbox"/> Rear Wall	<input type="checkbox"/> Front/Doors	<input type="checkbox"/> Ducting
<b>Width (feet):</b>		<b>Length (feet):</b>		<b>Height (feet):</b>		
<b>Manufacturer:</b>						
<b>Model Number:</b>						
<b>Serial Number:</b>						
<b>Pressure Gauge:</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Filter Plenum:</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>Air Pollution Control Methods:</b>	<input type="checkbox"/> Water Wash	<input type="checkbox"/> Cyclone (Form 13)	<input type="checkbox"/> Portable Dust Collector			
	<input type="checkbox"/> Cartridge Unit (Form 12)	<input type="checkbox"/> Baghouse (Form 12)	<input type="checkbox"/> Other (explain in attachment)			

\*\*\*RETURN TO ORCAA\*\*\*

### Filter Information for Fume Control Methods

	Pre-Filter	Exhaust Filter
Manufacturer:		
Model:		
Media Type:		
Overall Arrest Efficiency (%):		
Filtered Area (squared feet):		

### Electrode Information

AWS Classification(s):		
Worst Case Heavy Metal and Silica Composition (if applicable):	Trace Elements	Total Concentration (%)
	<input type="checkbox"/> Antimony (Sb)	
	<input type="checkbox"/> Arsenic (As)	
	<input type="checkbox"/> Barium (Ba)	
	<input type="checkbox"/> Beryllium (Be)	
	<input type="checkbox"/> Cadmium (Cd)	
	<input type="checkbox"/> Hexavalent Chromium (Cr VI)	
	<input type="checkbox"/> Copper (Cu)	
	<input type="checkbox"/> Lead (Pb)	
	<input type="checkbox"/> Mercury (Hg)	
	<input type="checkbox"/> Nickel (Ni)	
	<input type="checkbox"/> Selenium (Se)	
	<input type="checkbox"/> Silver (Ag)	
	<input type="checkbox"/> Thallium (Tl)	
<input type="checkbox"/> Zinc (Zn)		
Storage Methods:		

### Other Filler Information

Flux Type:	
Flux Storage and Handling:	

### Base Material Information

Type:	<input type="checkbox"/> Steel <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Aluminum	<input type="checkbox"/> Copper Alloys <input type="checkbox"/> Nickel Alloys <input type="checkbox"/> Glass	<input type="checkbox"/> Other (explain in attachment)
Surface Coatings:	<input type="checkbox"/> Anticorrosive <input type="checkbox"/> Shop primers	<input type="checkbox"/> Antifouling <input type="checkbox"/> Metal-based	<input type="checkbox"/> Other (explain in attachment)
SAE Steel Grade(s):			

### Exhaust/Stack/Building Information

<b>Motor Power (hp):</b>	
<b>Exhaust Air Flow Rate at 0.65" w.g. (acfm):</b>	
<b>Fan Diameter (feet):</b>	
<b>Stack Height (feet from ground):</b>	
<b>Stack Inside Diameter (inches):</b>	
<b>Stack weatherproof damper or exhaust apparatus**:</b>	<input type="checkbox"/> None <input type="checkbox"/> Butterfly <input type="checkbox"/> Hexagonal <input type="checkbox"/> Inverted cone <input type="checkbox"/> Stack within stack <input type="checkbox"/> Other (explain in attachment)
<b>Bldg. Peak Height (feet):</b>	
<b>Bldg. Width (feet):</b>	
<b>Bldg. Length (feet)</b>	

\*\*See back of form for information on ORCAA-approved stack equipment

### Air Quality Modeling Site Information

<b>Distance from the centroid of the stack to the shop's property line (feet):</b>	
<b>Distance from the centroid of the stack to the nearest point on the property line of a permanent residence (feet):</b>	

### Filler Material Usage Information

Provide the following information and attach copies of Material Safety Data Sheets (MSDS) for any material used including, but not limited to blasting media, base material and surface coatings, which contain toxic air pollutants. Use additional pages if necessary.

NAME OF MATERIAL (as on MSDS):	ESTIMATED ANNUAL USAGE (in gallons or lbs):