

Operational Permit Application



Cutting and Welding

www.cityofvancouver.us/departments/fire-department

International Fire Code as adopted by VMC 16.04 (Washington State Fire Code)

Permitting Requirements

An **operational permit** is required to conduct cutting or welding operations regulated by WSFC Section 3505.

A separate permit is required for any other hot work operations. A separate permit is required where compressed gases are used above permit thresholds indicated in WSFC Table 105.5.9.

Project Informa	tion					
Site Address			Owner Name			
Other						
Applicant Inform	mation					
Company Name			Address			
Contact Name					 	
Office Phone		Cellular		Email	 	
Contractor						
Company Name			Address			
Contact Name						
Office Phone		Cellular		Email	 	
Description of \	Work					

Electronic Plan Standards

File Naming Standards:

Electronic plans and documents shall be named as specified in the City of Vancouver <u>ePLANS</u> system: https://www.cityofvancouver.us/business/permits-licenses-and-inspections/eplans/



Acceptable File Types:

Plans, calculations, specifications and supporting documents shall be uploaded as a PDF file.

Plan Sheet Standards:

All plans shall be drawn to scale, as identified in the checklist, and each sheet shall state the scale and show a measurable scale on the page for measurement calibrations.

Document Orientation:

All plans must be uploaded in "Landscape" format in the horizontal position with a north indicator. All other documents can be in "Portrait" format.

Stamped:

Where documentation contains a code analysis or engineering calculations, such documents shall be stamped by the design professional.

Minimum Submittal Checklist for Upload to ePLANS

Completed Fire Installation Permit Application – Cutting and Welding (this document) Check all Permit Conditions checkboxes
that are applicable to your project

- □ Supporting documents listed below (See *Document Details* below)
- ☐ Site plans and floor plans (see *Plan Details* below)

Document Details

HMMP Guide: https://www.cityofvancouver.us/wp-content/uploads/2023/10/Hazardous-Materials-Management-Plan.pdf
See Vancouver Fire Department HMMP Guide for direction on completing required HMMP and/or supplemental forms

Completed Facility Information Forms, Hazardous Materials Inventory Statement (HMIS), Site Map, and Storage Plan (see
HMMP Guide linked above for direction on these forms). A spreadsheet template for HMIS is available here:
https://www.cityofvancouver.us/wp-content/uploads/2023/10/HMIS Template VFD.xlsm

☐ Listing documents for all proposed equipment to be used for cutting/welding operations

Plan Details

The following is a list of information required on all plan submittals for review of a cutting and welding permit. The plan shall be drawn to 1/8'' = 1'-0'' minimum scale. The applicant is required to submit all applicable information so an accurate and timely review may be done:

General:

	Site plan to include a north arrow, a measurable scale for calibration purposes, fire hydrants, emergency access lanes and
	doors, vehicle gates, Fire Department Connection, points of assembly/accountability for evacuees, setbacks from property
	lines, the public way and unrelated combustible exposures, electrical room, gas meters, sprinkler riser, fire alarm control
	panel, Knox Box, roof access (if provided), and any outdoor hazardous storage.
	Interior plans showing all access points, hazardous materials storage rooms and/or cabinets, hazardous equipment or
	operations areas, proposed area dedicated to cutting and welding.
П	Fire-resistance rated construction

	Electric or	gas weldi	ng or cutting	equipment
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- ☐ Spray application of molten metals equipment
- ☐ Materials to be stored, used or trans-loaded/transported

	Deutschle für entimentischen Leistigen und MCCC 00C
	Portable fire extinguisher locations per WSFC 906
	Areas of open flames and sparks, hot surfaces, or other ignition sources
	Signage locations Presence or lack of fire sprinkler protection
Perm	it Conditions
	owing is a list of WSFC requirements related to cutting and welding operations. Use this form to confirm that all applicable
require	ments are met. Non-applicable requirements can be left blank.
_	elding and Cutting:
	Devices or attachments mixing air or oxygen with combustible gases prior to consumption, except at the burner or in a
	standard torch or blow pipe, shall not be allowed unless approved (WSFC 3505.1).
	Storage, handling and use of compressed gas cylinders, containers and tanks shall be in accordance with WSFC Chapter 53 (WSFC 3505.2).
	The storage or use of a single cylinder of oxygen and a single cylinder of fuel gas located on a cart shall be allowed without
	requiring the cylinders to be separated when the cylinders are connected to regulators, ready for service, equipped with apparatus designed for cutting or welding and all of the following (WSFC 3505.2.1):
	Carts shall be kept away from the cutting or welding operation to prevent such cylinders or generators from being
	heated by radiation from heated materials, sparks or slag, or misdirection of the torch flame or fire-resistant shields
	shall be provided.
	2. Cylinders shall be secured to the cart to resist movement.
	3. Carts shall be in accordance with WSFC 5003.10.3.
	Cylinder valves not having fixed hand wheels shall have keys, handles or nonadjustable wrenches on valve stems while the cylinders are in service.
	 Cylinder valve outlet connections shall conform to the requirements of CGA V-1.
	6. Cylinder valves shall be closed when work is finished.
	7. Cylinder valves shall be closed before moving the cart.
	Incompatible materials in storage and storage of materials that are incompatible with materials in use shall be separated
_	where the stored materials are in containers having a capacity of more than 5 pounds (2 kg), 0.5 gallon (2 L) or any amount of
	compressed gases. Separation shall be accomplished by (WSFC 5003.9.8):
	 Segregating incompatible materials in storage by a distance of not less than 20 feet (6096 mm).
	2. Isolating incompatible materials in storage by a noncombustible partition extending not less than 18 inches (457 mm) above and to the sides of the stored material.
	Storing liquid and solid materials in hazardous material storage cabinets.
	4. Storing compressed gases in gas cabinets or exhausted enclosures in accordance with WSFC Sections 5003.8.5 and
	5003.8.6. Materials that are incompatible shall not be stored within the same cabinet or exhausted enclosure.
	Cylinders, valves, regulators, hose and other apparatus and fittings for oxygen shall be kept free from oil or grease. Oxygen
	cylinders, apparatus and fittings shall not be handled with oily hands, oily gloves, or greasy tools or equipment (WSFC 3505.3).
	Acetylene gas shall not be piped except in approved cylinder manifolds and cylinder manifold connections or utilized at a
	pressure exceeding 15 pounds per square inch gauge (103 kPa) unless dissolved in a suitable solvent in cylinders
	manufactured in accordance with DOTn 49 CFR Part 178. Acetylene gas shall not be brought in contact with unalloyed copper,
	except in a blowpipe or torch (WSFC 3505.4).
	Oxygen and fuel-gas cylinders and acetylene generators shall be located away from the hot work area to prevent such
	cylinders or generators from being heated by radiation from heated materials, sparks or slag, or misdirection of the torch
	flame (WSFC 3505.5).

	The torch valve shall be closed and the gas supply to the torch completely shut off when gas welding or cutting operations are
	discontinued for a period of 1 hour or more (WSFC 3505.6).
	Welding or cutting work shall not be held or supported on compressed gas cylinders or containers (WSFC 3505.7).
	Tests for leaks in piping systems and equipment shall be made with soapy water. The use of flames shall be prohibited for leak
	testing (WSFC 3505.8).
NOTE:	This is not intended to be an all-inclusive list. The WSFC requirements listed are intended to ensure that we have adequate
informa	tion to begin a review of the application. Additional information may be required.
and cor	stand that all applicable codes apply and that other regulatory codes may also apply. Errors and/or omissions on the plans rections from field inspections are the responsibility of the owner/contractor. All work is subject to compliance with City of ver ordinances and laws of the State of Washington.
APPLIC	ANT NAME:APPLICATION DATE: