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DATE: August 23, 2022

WSR 22-17-147

TIME: 3:57 PM

PROPOSED RULE MAKING



CR-102 (July 2022) (Implements RCW 34.05.320) Do NOT use for expedited rule making

Expedited Rule MakingProposed notice was filed as WSR; or Proposal is exempt under RCW 34.05.310(4) or 34.05.330(1); or Proposal is exempt under RCW	Agency: State Building Code Council									
Continuance of WSR Peroposal Statement of Inquiry was filed as WSR 22:03:026 ; or Expedited Rule MakingProposed notice was filed as WSR; or Proposal is exempt under RCW 34:05:310(4) or 34:05:330(1); or Proposal is exempt under RCW 34:05:310(4) or 34:05:330(1); or Proposal is exempt under RCW 34:05:310(4) or 34:05:330(1); or Proposal is exempt under RCW 34:05:310(4) or 34:05:330(1); or Proposal is exempt under RCW 34:05:310(4) or 34:05:330(1); or Proposal is exempt under RCW 34:05:310(4) or 34:05:330(1); or Proposal is exempt under RCW 34:05:310(4) or 34:05:330(1); or Proposal is exempt under RCW 34:05:310(4) or 34:05:330(1); or Proposal is exempt under RCW 34:05:310(4) or 34:05:330(1); or Container(s): Date: Time: Location: (be specific) Comment: September 30, 2022 10:00 am 10:00 am 129 N 2 ^{m/} St; Yakima, WA 98901 Place of intended adoption: Movember 4: 2022 (Note: This is NOT the effective date) Submit written comments to: Assistance for persons with disabilities: Name: State Building Code Council Contact Annette Hawotth Address: PO Box 41449, Olympia WA 98504-1449 Phone: 360-407-9255 Emait: sbcc@des.wa.gov Fax:	⊠ Original I	Notic	e							
☑ Preproposal Statement of Inquiry was filed as WSR 22:03:026 ; or ☑ Proposal is exempt under RCW 34.05:310(4) or 34.05:330(1); or □ Proposal is exempt under RCW	Supplem	ental	Notice to WSR							
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□ Proposal is exempt under RCW	□ Expedited Rule MakingProposed notice was filed as WSR; or									
Title of rule and other identifying information: (describe subject) WAC 51-52: Adoption and Amendment of the 2021 International Code and International Fuel Gas Code Hearing location(s): Comment: September 30. 2022 10:00 am (12:0 N 2 ^{md} St; Yakima, WA 98901 Please access the meetings in-person, or via Zoom or Corbor 14, 2022 Otom and 12:0 N 2 ^{md} St; Yakima, WA 98901 Please access the meetings in-person, or via Zoom or Corbor 14, 2022 Otom and 10:00 arm 10:00 arm 10:00 arm 10:00 Jefferson St SE; Olympia, WA 98504 Contact Annette Haworth Submit written comments to: Massistance for persons with disabilities: Submit written comments to: Sasistance for persons with disabilities: Contact Annette Haworth Address: PO Box 41449, Olympia WA 98504-1449 Phone: 360-407-9255 Fax: TTY: Small: sbcc@des.wa.gov Fax: TTY: Email: sbcc@des.wa.gov Other: By (date) October 14, 2022 Description of the International Mechanical Code and International Fuel Gas Code, published by the International Code Council, with state amendments to incorporate proposed changes as adopted by the Washington State Building Code Description And State. True or C	\Box Proposal is exempt under RCW 34.05.310(4) or 34.05.330(1); or									
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5.	202 "Balanced whole house ventilation"	Code Change / Clarification (21-GP2-076)	The phrase "dwelling or sleeping" was added to the first sentence for clarity. The second sentence was moved to Section 403.4.6.3 since it is more in the nature of a code requirement than part of a definition.
6.	202 "Not balanced whole house ventilation	Code Change / Clarification (21-GP2-076)	A new definition was added to help clarify the whole house ventilation requirements and rate adjustment in Table 403.4.3 and when and where balanced ventilation is required.
7.	202 "Distributed whole house ventilation"	Code Change / Clarification (21-GP2-076)	This definition was revised to separate adjacent rooms from adjoining spaces and help clarify requirements for whole house ventilation.
8.	202 "Not distributed whole house ventilation"	Code Change / Clarification (21-GP2-076)	A new definition was added to help clarify the whole house ventilation requirements and rate adjustment in Table 403.4.3 and when and where balanced ventilation is required.
9.	202 "Enclosed kitchen"	Code Change (21-GP2-063)	This definition was added to coordinate with the proposal requiring additional kitchen hood ventilation and helps clarify the difference between an open kitchen and enclosed kitchen.
10.	202 "Interior adjacent room"	Code Change / Clarification (21-GP2-076)	A new definition was added to help clarify the whole house ventilation requirements and when and where balanced ventilation is required.
11.	202 "Interior adjoining room"	Code Change / Clarification (21-GP2-076)	A new definition was added to help clarify the whole house ventilation requirements and when and where balanced ventilation is required.
12.	306.6 Appliances above ceilings	Code Change / Clarification (21-GP2-087)	This change removes the requirement for appliances above ceilings to have ready access. While the section required ready access, it also specified that the ready access was to a removal panel or tile, contrary to the definition of ready access. This clarifies that a removable panel is allowed. The sizing was changed, going from nominal dimensions to actual opening dimensions.
13.	401.4 Intake opening location	Code Change / 2021 IMC Change (21-GP2-077, 21-GP2-085)	Item 2 of this section was modified to allow residential small system air intakes less than 25 feet above a parking lot, to help alleviate the need to provide "snorkel" type intakes for multi-family building units. The language previously found in the exception as a state amendment was moved into the main body of Item 3 for the 2021 IMC. This was modified to align the IMC requirements for combination terminations with ASHRAE 62.2 requirements.
14.	401.7 Testing and balancing	Editorial	The term "building official" was changed to "code official."
15.	403.2.1 Recirculation of air	2021 IMC Change	Changes to the model code language were integrated into the existing state amendment. The changes are to portions of the section that were not a part of the existing state amendment.
16.	Table 403.3.1.1 Required outdoor ventilation air	2021 IMC Change, editorial	Previously, the filed rule contained only those sections of the table that were amended by the state. The proposed rule now contains the entire table rather than the six categories amended by the state. Also included is a 2021 IMC change to footnote M for consistency with ASHRAE 62.1. No changes were made to the existing state amendments to the table.
17.	403.4 Group R whole house mechanical	Code Change (21-GP2-009)	An exception was added that allows ASHRAE 62.2 to be used as an alternate compliance path for low-rise residential.

	ventilation system		
18.	403.4.1 System design	Editorial	Edited for consistency with code language format.
19.	403.4.4.1 Whole house ventilation in Group R-2 occupancies	Code Change / Clarification (21-GP2-010, 21-GP2-076)	Language was added that clarifies when heat/energy recovery ventilators are required in multifamily residential buildings. It was previously unclear as to whether an HRV/ERV was required by this section. Exceptions were added to clarify ventilation requirements in adjoining/adjacent spaces.
20.	403.4.4.2 Whole house ventilation for other than Group R-2 occupancies	Code Change / Clarification (21-GP2-076)	The same exceptions were added to this section to clarify how adjoining/adjacent spaces are to be ventilated.
21.	403.4.6.1 Exhaust fans	Code Change (21-GP2-063)	Changes were made to separate kitchen exhaust requirements from other local exhaust to coordinate with the changes for kitchen range hood exhaust.
22.	403.4.6.3 Balanced whole house ventilation system	Code Change / editorial (21-GP2-063)	The text that was a duplicate of the removed language in the balanced whole house ventilation definition was modified for clarity.
23.	403.4.7 Local exhaust	Code Change / Editorial (21-GP2-063)	Timer controls were added to the list of allowable fan controls.
24.	Table 403.4.7 Minimum exhaust rates	Code Change (21-GP2-063)	The exhaust rate for kitchens was divided into Open and Enclosed kitchens and a reference added to the new Section 403.4.7.3 for kitchen range hood exhaust requirements.
25.	403.4.7.2 Local exhaust fans	Code Change (21-GP2-063)	The phrase "or equivalent" was added to the testing standards to include ASTM capture efficiency testing for kitchen hoods, AHAM hood testing and HIV 911 listings. The exception for downdraft hoods was removed as the intent is for all hoods to be able to capture and remove pollutants from cooking. Items 4 and 5 also set maximum sound ratings for kitchen ventilation.
26.	403.4.7.3 Local intermittent kitchen exhaust system / Table 403.4.7.3	Code Change (21-GP2-063)	This new section and table sets minimum airflow rates or capture efficiencies for kitchen range hoods based on the type of kitchen appliance installed. The intent is to reduce the exposure to detrimental health impacts from the pollutants produced by cooking, including nitrogen dioxide which can increase the risk of asthma.
27.	403.4.7.3.1 Field verification and diagnostic testing for local intermittent kitchen exhaust system	Code Change (21-GP2-063)	This new section requires verification for either the capture efficiency or airflow rate as specified in Table 403.4.7.3
28.	501.3.1 Location of exhaust outlets	2021 IMC Change Code Change / Clarification (21-GP2-019)	The 2021 IMC added language to Item 3 allowing combination exhaust termination fittings. This was previously addressed in the state amendment to Section 401.2.

			Additionally, Item 6 was added to provide guidance on the requirements for transformer vault exhaust rather than lumping it in with parking garage exhaust, but there are specific requirements in the NEC for transformer exhaust.
29.	501.4 Pressure equalization	Code Change / Editorial (21-GP2-063)	The phrase "domestic range" is replaced with "kitchen" in the exception to coordinate with the new kitchen exhaust requirements.
30.	504.11 Common exhaust systems for clothes dryers	Editorial	Renumbering/section reference update only to coordinate with IMC changes.
31.	505.3 Domestic exhaust ducts	Code Change (21-GP2-063)	The section title was updated for consistency with the language in the IMC. Exception 1 was revised to allow continuous exhaust systems (where allowed by Table 403.4.7.3) with a MERV 3 grease filter to not terminate to the outdoors.
32.	506.3.9.1 Grease duct horizontal cleanout	2021 IMC Change	The 2021 IMC added Item 7 with separation requirements for horizontal discharge fans.
33.	515.1 General (Waste or linen chute venting)	Editorial	The language edited for consistency with the model code style and the exception language is simplified for clarity.
34.	601.2 Air movement in egress elements	2021 IMC Change	The langue in Exception 4 was clarified and a reference to ASHRAE 170 for health care facilities was added.
35.	603.5.1 Gypsum ducts	2021 IMC Change	The second sentence was revised for clarity and consistency with defined terms.
36.	605 Air filters	Code Change (21-GP2-098, 21-GP2-086)	The Council sent forward two options for requirements for air filters. The first requires MERV 13 filters in most occupancies for filtering particulates and contaminants from outdoor air. The second option retains the current requirement for MERV 6 filters but requires that air handlers have the the ability to install a MERV 13 filter if needed due to air quality and have sufficient fan capacity to provide the required air volume with a MERV 13 filter. Both of these methods were intended to address indoor air quality during periods of poor air quality, but Option 1 also addresses indoor air quality by filtering and preventing the spread of any indoor contaminates such as viruses.
37.	607.5.2 Fire barriers	Code Change / Clarification (21-GP2-075)	This section is amended to allow flexible connections when air-handling equipment is located outdoors (in Exception 3.1) and ducts that connect to a diffuser, grille or register within the same room (Exception 3.2).
38.	607.5.3 Fire partitions	Code Change (21-GP2-075)	Exception 4 is amended to allow flexible connections in similar instances as for fire barriers, above.
39.	915.3 Installation of emergency and legally required power systems	Code Change (21-GP2-074)	This is a new section that brings in language to reference NFPA standards for standby power systems required by the building code.
40.	915.4	Code Change	This new section brings in reference standards for standby power that is not required under the building

	option standby power systems		
41.	1101.2 Factory-built equipment and appliances	2021 IMC Change	This section previously included a state amendment to reference UL 60335-2-40 for low global warming potential refrigerants. This amendment is no longer necessary as the base model code language now contains the same reference standard.
42.	1101.6 General (Refrigeration systems)	2021 IMC Change	This section was removed from the 2021 IMC and the requirements moved into Section 1101.1.1 and 1101.1.2. The previous state amendment added ASHRAE 15, which is now referenced in 1101.1.1 of the model code, so the state amendment is no longer necessary.
43.	1105.6.3 Ventilation rate	2021 IMC Change	The 2021 IMC removed the sentence that was modified by the state and now the model code just references the IIAR standard for ammonia refrigeration. The state amendment is no longer necessary.
44.	1209.5 Insulation and thermal break	2021 IMC Change Editorial	The model code changed the title of this section to be more descriptive of the requirements in the section, and terminology was updated for clarity and consistency.
45.	1305.7 Vent piping	Code Change / Clarification	This section was amended for clarity and consistency with other code and standards separation requirements.
46.	1402.8.1.2 Rooftop mounted solar thermal collectors and systems	2021 IMC Change	The existing state amendment to this section was included in the model code base language for the 2021 IMC, so the amendment is no longer necessary.
47.	Chapter 15 Referenced standards	Code Changes / 2021 IMC Change (21-GP2-063, 21-GP2-009, 21-GP2-074)	The referenced standards section was updated to include new standards introduced by code change proposals. AHAM HRH-2, ASTM E3087, and HVI 911 were added to support the changes to the kitchen ventilation requirements. ASHRAE 62.2 was updated to the most recent version and is referenced by both the kitchen ventilation proposal and the alternate compliance proposal for low rise ventilation. Two NFPA standards are included as referenced by the standby power proposal. Some standards that were previously included through state amendment are now referenced by the model code and the amendments are no longer necessary. Other standards added by amendment are updated to the most recent version.
48.	IFGC Section 101 General (WAC 51-52- 21101)	Updated references	Updates the adopted code references for NFPA 58 (2020) and NFPA 54 (2021).
49.	IFGC Section 116 Failure to comply (WAC 51-52-21116)	Editorial	The term "authority having jurisdiction" was changed to "code official" in an effort to remove any ambiguity.
50.	IFGC Table 409.1.1 Natural gas valve standards (WAC 51-52- 21409)	Code Change (21-GP2-001)	The table is amended to add ASME B16.38 for natural gas systems with piping 2-1/2 to 4 inches in diameter to allow for a flanged valve option.

	51.	IFGC Chapter 8 Referenced Standards (WAC 51-52- 21800)	Code Change	The standard referenced in Proposal 001 diameter gas piping is added to the reference standards			
	••	<u> </u>	CW 19.27.031, 19.27				
			RCW 19.27.031, 19.				
	•	-	19.27.031, 19.27.07	74			
	-	y because of a:					
	ral La				∐ Yes	⊠ No	
		ourt Decision? t Decision?			□ Yes	⊠ No	
If yes, CITA					□ Yes	🛛 No	
	mmer		dations, if any, as to	o statutory language, implementation, er	nforcement, a	nd fiscal	
•••			Public 🛛 Governmen ganization) Washingt	tal on State Building Code Council			
Name of ag	jency	personnel respo	nsible for:				
		Name	Offic	e Location	Phone		
Drafting:		Krista Braaksma	a 1500) Jefferson St. SE, Olympia, WA 98504	360-407-9	278	
Implementa	tion:	Krista Braaksma 1500 Jefferson St. SE, Olympia, WA 98504 360-407-9278				278	
Enforcemer	nt:	Local building d	epartments				
Na Ad Pi Fa Ti Er		y obtain a copy of	the school district fis	cal impact statement by contacting:			
			d under <u>RCW 34.05</u>				
Na Ad Pł	 Yes: A preliminary cost-benefit analysis may be obtained by contacting: Name: Stoyan Bumbalov Address: PO Box 41449, Olympia WA 98504-1449 Phone: 360-407-9277 						
Т	Fax: TTY: Email: sbcc@des.wa.gov						
Oi	ther: Plea	se explain:					
Regulatory	Fairn	ess Act and Sma		mic Impact Statement	completing this	part.	
(1) Identific This rule pro <u>chapter 19.8</u>	Note: The <u>Governor's Office for Regulatory Innovation and Assistance (ORIA)</u> provides support in completing this part. 1) Identification of exemptions: This rule proposal, or portions of the proposal, may be exempt from requirements of the Regulatory Fairness Act (see <u>chapter 19.85 RCW</u>). For additional information on exemptions, consult the <u>exemption guide published by ORIA</u> . Please check the box for any applicable exemption(s):						

□ This rule proposal, or portions of the proposal, is exempt under <u>RCW 19.85.061</u> because this rule making is being adopted solely to conform and/or comply with federal statute or regulations. Please cite the specific federal statute or regulation this rule is being adopted to conform or comply with, and describe the consequences to the state if the rule is not adopted.

Citation and description:

□ This rule proposal, or portions of the proposal, is exempt because the agency has completed the pilot rule process defined by <u>RCW 34.05.313</u> before filing the notice of this proposed rule.

□ This rule proposal, or portions of the proposal, is exempt under the provisions of <u>RCW 15.65.570(2)</u> because it was adopted by a referendum.

This rule proposal, or portions of the proposal, is exempt under <u>RCW 19.85.025(3)</u>. Check all that apply:

		requirements for applying to an agency for a license or permit)
	(Correct or clarify language)	((i) Relating to agency hearings; or (ii) process
\boxtimes	<u>RCW 34.05.310</u> (4)(d)	<u>RCW 34.05.310</u> (4)(g)
	(Incorporation by reference)	(Set or adjust fees)
\boxtimes	<u>RCW 34.05.310</u> (4)(c)	<u>RCW 34.05.310</u> (4)(f)
	(Internal government operations)	(Dictated by statute)
	<u>RCW 34.05.310</u> (4)(b)	<u>RCW 34.05.310</u> (4)(e)

□ This rule proposal, or portions of the proposal, is exempt under <u>RCW 19.85.025(4)</u> (does not affect small businesses).

 \square This rule proposal, or portions of the proposal, is exempt under RCW ____

Explanation of how the above exemption(s) applies to the proposed rule: In addition to the proposed changes, the rule includes adoption by reference of the 2021 International Mechanical Code (IMC), a model code published by the International Code Council. Those portions of the 2021 IMC that are not amended by this proposed rule will be adopted as written. The full text of the 2021 IMC may be viewed here: https://codes.iccsafe.org/content/IMC2021P3

(2) Scope of exemptions: Check one.

□ The rule proposal is fully exempt (*skip section 3*). Exemptions identified above apply to all portions of the rule proposal. ⊠ The rule proposal is partially exempt (*complete section 3*). The exemptions identified above apply to portions of the rule proposal, but less than the entire rule proposal. Provide details here (consider using <u>this template from ORIA</u>): WAC 51-52-003 adopts by reference the 2021 edition of the International Mechanical Code. WAC 51-52-0101 adopts by reference the 2021 International Fuel Gas Code, the 2020 Edition of NFPA 58 (Liquified Petroleum Gas Code) and the 2021 Edition of NFPA 54 (National Fuel Gas Code).

□ The rule proposal is not exempt *(complete section 3)*. No exemptions were identified above.

(3) Small business economic impact statement: Complete this section if any portion is not exempt.

If any portion of the proposed rule is **not exempt**, does it impose more-than-minor costs (as defined by RCW 19.85.020(2)) on businesses?

□ No Briefly summarize the agency's minor cost analysis and how the agency determined the proposed rule did not impose more-than-minor costs. _____

Yes Calculations show the rule proposal likely imposes more-than-minor cost to businesses and a small business economic impact statement is required. Insert the required small business economic impact statement here:

There are costs imposed by the proposed rules, but the costs do not fall disproportionately on small businesses. These rules will not affect the distribution of impacted work, whether by small businesses or not, doing the work. The rules do not affect employment, reporting or record keeping.

Small Business Economic Impact Statement (RCW 19.85.040)

Description

The Washington State Building Code Council (SBCC) is filing a proposed rule to adopt the updated 2018 edition of the International Mechanical Code (IMC) (WAC 51-52). Since 1985 the state building code council has been responsible to update to new editions of the building code per RCW 19.27.074. The IMC are updated every three years by the International Code Council (ICC). The code development process conducted by the model code organization is open to all interest groups within the design and construction industry and from governmental organizations. See www.iccsafe.org for more information about the model code development process.

The administrative compliance requirements are under the authority of the local government. RCW19.27.050. Compliance activities including permit issuance, plan review and approval, and inspections occur at the local level. Requirements for construction document submittal and other reporting requirements are determined by the local jurisdiction and are consistent

with previously established policies. The proposed amendments to WAC 51-52 include specific technical requirements for building construction to be consistent with national standards.

Professional Services

Washington has had a statewide building code in effect since 1974. The local enforcement authority having jurisdiction administers the codes through the building and/or fire departments. Administrative procedures for state building code compliance are established and will not be changed by the adoption of the update to the current building codes. Small businesses will employ the same types of professional services for the design and construction of buildings and systems to comply with the state building code.

The proposed rule updates the state building code and does not require additional equipment, supplies, labor or other services. Services needed to comply with the building code are existing within the construction industry as required by the local authority having jurisdiction.

Costs of Compliance for Businesses

The cost of compliance incurred by Washington businesses includes training and educational materials. The 2021 International Mechanical model code costs \$90 + tax, shipping and handling. These publications are also available online at <u>https://codes.iccsafe.org/codes</u>. The ICC chapters and local stakeholder groups offer training for continuing education credits at various times throughout the year. Prices vary depending on topic and intensity.

The Mechanical Code technical advisory group (TAG) determined there is a cost for compliance on businesses for the following proposed state amendments.

- Sections 403.4.7 New Table 403.4.7.3 (21-GP2-063): This new section and table sets minimum airflow rates or capture efficiencies for kitchen range hoods in residential dwellings based on the type of kitchen appliance installed. The intent is to reduce the exposure to detrimental health impacts from the pollutants produced by cooking, including nitrogen dioxide which can increase the risk of asthma. This proposal is solely based on health concerns from poorly ventilated gas appliances A \$200 to up to \$1000 (if the make-up air requirement is triggered) incremental cost is estimated. There is no additional operation cost.
- 2. Section 605 Option 1 (21-GP2-098): This change is intended to improve indoor air quality, by filtering out exterior pollutants, such as wildfire smoke, and interior sources such as airborne infectious particles. The change requires improved filters on various air handlers and ventilation systems, up to MERV 13. The anticipated incremental cost is about \$5.00 per filter. If replaced every three months, that would be an annual cost of \$20 per air handler.
- 3. Section 605 Option 2 (21-GP2-086): This is similar to the previous proposal but is focused solely on exterior pollutants and the ability for building inhabitants to respond to events with an increase in outdoor air pollution. This proposal requires that the air handler be capable of housing a MERV 13 filter and provide the required fan capacity. This also carries the same costs as the previous proposal, but the incremental cost may not be incurred every time the filter is changed, so the annual cost could be less than the estimated \$20 per air handler.

Loss of Sales or Revenue

The proposed rules make the state code for building construction consistent with national standards. Businesses with new products or updated test or design standards are recognized in the updated building code.

The update will result in some cost outlay for some small businesses for specific building projects, for a transition period. Other small businesses would see an increase in revenue. The amendments to the building codes affect over 25,000 small businesses in the state, where construction activity occurs. The primary intent of the amendments is to improve the safety features in buildings and provide consistency and fairness across the state, for a predictable business environment. The amendments should result in enhanced safety and value in buildings.

<u>Cost of Compliance for Small Businesses</u> (Determine whether the proposed rule will have a disproportionate cost impact on small businesses, compare the cost of compliance for small business with the cost of compliance for the ten percent of businesses that are the largest businesses.)

The majority of businesses affected by the updates to the building codes are small businesses; over 95 percent of those listed in the construction and related industries have under 50 employees. The costs per employee are comparable between the largest businesses and the majority of small businesses. The cost to comply with the updated codes is not a disproportionate impact on small business. Where the Council found the cost of compliance for small businesses to be disproportionate, the proposed rule mitigates the cost. The proposed rules include a definition of small business and provide exceptions for compliance with the updated rule.

Reducing the Costs of the Rule on Small Businesses

The SBCC conducted a detailed review process, including participation at the national code development hearings, to document significant economic impacts of the proposed code amendments.

Small Businesses Involved in the Development of the Rule

For the IMC, the SBCC conducted eight open public meetings of the building code technical advisory group, available via telephone conference bridge and over the internet, and allowed comment on every item on every agenda. For the IMC TAG

the SBCC appointed 11 representatives of all segments of the business and construction community to serve on the technical advisory groups.

List of Industries

Below is a list of industries required to comply with the mechanical code:

NAICS Code	NAICS Code Definition	Number in Washington State	TOTAL Annual Payroll	TOTAL Annual Revenue	AVG Annual Payroll	AVG Annual Revenue	1% of Avg Annual Payroll	0.3% of Avg Annual Revenue
236116	New multifamily housing construction (except for- sale builders)	45	\$54,622k		\$1,213,822		\$12,138	
236118	Residential remodelers	2777	\$318,180k	\$1,536,217k	\$114,577	\$553,193	\$1,146	\$1,660
236210	Industrial building construction	53	\$99,790k					
236220	Commercial and institutional building construction	862	\$772,473k	\$6,925,925k	\$896,140	\$8,034,716	\$8,961	\$24,104
238130	Framing contractors	417	\$79,196k	\$279,226k	\$189,918	\$669,607	\$1,899	\$2,009
238140	Masonry contractors	293	\$74,067k	\$215,274k	\$252,788	\$734,724	\$2,528	\$2,204
238150	Glass and glazing contractors	141	\$67,626k	\$237,985k	\$479,617	\$1,687,837	\$4,796	\$5,064
238160	Roofing contractors	537	\$179,942k	\$660,911k	\$335,088	\$1,230,747	\$3,351	\$3,692
238190	Other foundation, structure, and building exterior contractors	113	\$37,585k	\$123,771k	\$332,611	\$1,095,319	\$3,326	\$3,286
238210	Electrical contractors and other wiring installation contractors	1847	\$940,854k	\$3,026,762k	\$509,396	\$1,638,745	\$5,094	\$4,916
238220	Plumbing, heating, and air- conditioning contractors	1664	\$959,976k	\$3,169,548k	\$576,909	\$1,904,776	\$5,769	\$5,714
238290	Other building equipment contractors	81	\$117,696k		\$1,453,037		\$14,530	

238310	Drywall and insulation contractors	653	\$282,929k	\$723,945k	\$433,276	\$1,108,644	\$4,333	\$3,325
238990	All other specialty trade contractors	547	\$182,710k	\$573,308k	\$334,022	\$1,048,095	\$3,340	\$3,144
321213	Engineered wood member (except truss) manufacturi ng	11	\$14,216k	\$79,051k	\$1,292,364	\$7,186,455	\$12,924	\$21,559
332322	Sheet metal work manufacturi ng	122	\$122,956k	\$573,443k	\$1,007,836	\$4,700,352	\$10,078	\$14,101
423720	Plumbing and heating equipment and supplies (hydronics) merchant wholesalers	168	\$82,225k	\$897,748k	\$489,435	\$5,343,738	\$4,894	\$16,031
541310	Architectural services	635	\$326,798k	\$921,033k	\$514,643	\$1,450,446	\$5,146	\$4,351
541330	Engineering services	1599	\$1,758,825k	\$3,946,553k	\$1,099,953	\$2,468,138	\$11,000	\$7,404
541350	Building inspection services	154	\$9,724k	\$28,297k	\$63,143	\$183,747	\$631	\$551

Note: Data is blank in some fields to protect data source.

Data Source: Economic Census of the United States

Estimate of the Number of Jobs That Will Be Created or Lost

The adoption of the latest code edition is not expected to significantly impact the number of jobs in the construction industry. These rules are likely to be job neutral overall, i.e., they will not result in any job gains or losses. The scheduled effective date of the new edition is July 1, 2023. Building permits issued prior to that date will be vested under the 2018 building code. Permits issued for projects under the 2021 code edition will generally start with the 2024 construction season.

The public may obtain a copy of the small business economic impact statement or the detailed cost calculations by contacting:

Name: Stoyan Bumbalov Address: PO Box 41449, Olympia WA 90504-1449 Phone: 360-407-9277 Fax: TTY: Email: sbcc@des.wa.gov Other:

Date: August 23, 2022	Signature:
Name: Tony Doan	Tim
Title: Council Chair	