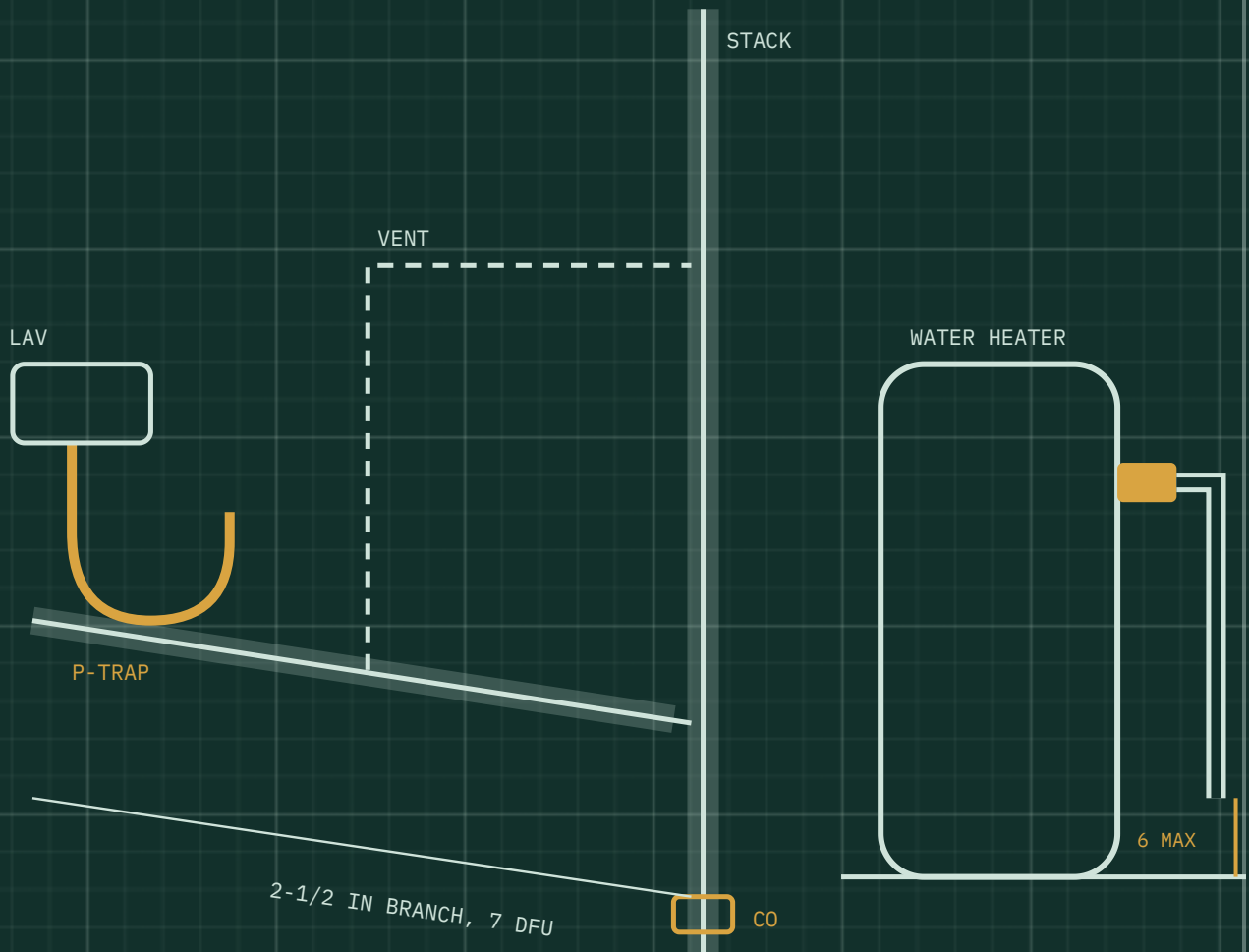




KNOW THE CODE BEFORE THE EXAM ASKS.

Journeyman plumber exam prep. Practice questions keyed to the 2024 IPC, each with its section and the trap that catches people.

PROJECT

JOURNEYMAN EXAM PREP

CODE

2024 IPC

EDITION

SAMPLE

DRAWN FOR

YOUR NAME HERE, LICENSED PLUMBER

BUILT BY

PRIMER & PROOF

SHEET

1 OF 10

TWELVE MODULES. ONE METHOD.

The full guide follows the way the exam is built: timed, often open book, and full of answers that look right. Every explanation names the section, so you learn where to look as well as what it says.

01 Definitions and administration Ch. 1, 2	02 Fixtures and fixture units Ch. 4, Table 709.1	03 Water heaters Ch. 5
04 Water supply and backflow Ch. 6	05 Sanitary drainage Ch. 7	06 Indirect waste Ch. 8
07 Vents Ch. 9	08 Traps and interceptors Ch. 10	09 Storm drainage Ch. 11
10 Sizing calculations Tables 709 to 710	11 Isometrics and plan reading Drawing set	12 Timed mock exams All chapters

Outlined modules have questions in this sample.

1 ANSWER COLD Code book open, answer key closed. Mark how sure you are.	2 READ THE WHY Every answer names the section and the trap.	3 SIZE IT Worked calculations from fixture units to pipe size.	4 TIME IT Mixed, timed sets like the real test.
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37
states

plus DC use the International Plumbing Code, per ICC's 2024 IPC fact sheet. Others base their code on the Uniform Plumbing Code; IAPMO lists state codes for California, Oregon, Idaho, Minnesota, South Dakota and Washington. States amend whatever they adopt, so the full guide is built to the edition your audience's boards test.

ICC 2024 IPC fact sheet; IAPMO state-adopted codes page; checked Oct. 29, 2026

WORK THESE WITH THE CODE BOOK OPEN.

01

P-01

Drainage fixture units

Under the 2024 IPC, what drainage fixture unit (dfu) value does Table 709.1 assign to a bathroom group, as defined in Section 202, with a 1.6 gpf water closet?

A 3 dfu**B** 6 dfu**C** 5 dfu**D** 8 dfu☐ Sure ☐ Unsure ☐ Guess**02**

P-02

Trap requirements

Per 2024 IPC Table 709.1, what is the minimum trap size for a domestic kitchen sink with a food waste disposer, a dishwasher or both?

A 1-1/4 inches**B** 1-1/2 inches**C** 2 inches**D** 3 inches☐ Sure ☐ Unsure ☐ Guess**03**

P-03

Venting

An individual vent serving a fixture drain has a developed length of 48 feet. What does 2024 IPC Section 906.2 require?

A Increase the vent by one nominal pipe size for its entire developed length**B** Increase only the portion of the vent beyond 40 feet by one nominal pipe size**C** No increase is needed as long as the vent is at least 1-1/4 inches**D** Increase the vent by two nominal pipe sizes☐ Sure ☐ Unsure ☐ Guess**04**

P-04

Water heater relief valves

A temperature and pressure relief valve discharge pipe is 3/4 inch in diameter and terminates over the floor. Which termination height above the floor complies with 2024 IPC Section 504.6?

A 1 inch**B** 12 inches**C** 8 inches**D** 4 inches☐ Sure ☐ Unsure ☐ Guess

FOUR MORE.

05

P-05

Cleanouts

Where a cleanout plug must be protected from the loads of vehicular traffic, the 2024 IPC requires cleanout assemblies installed in accordance with which standard?

- ☐ **A** ASME A112.4.1
- ☐ **B** ASME A112.36.2M
- ☐ **C** ASSE 1022
- ☐ **D** ASSE 1050

☐ Sure ☐ Unsure ☐ Guess

06

P-06

Indirect waste

Under 2024 IPC Section 802.4.3, how far must a standpipe extend above its trap weir?

- ☐ **A** Not less than 18 inches and not greater than 30 inches
- ☐ **B** Not less than 6 inches and not greater than 18 inches
- ☐ **C** Not less than 18 inches and not greater than 42 inches
- ☐ **D** Not less than 24 inches and not greater than 48 inches

☐ Sure ☐ Unsure ☐ Guess

07

P-07

Water supply and backflow

Under 2024 IPC Section 608.17.1.1, the water supply connection to a carbonated beverage dispenser must be protected against backflow by:

- ☐ **A** A backflow preventer conforming to ASSE 1022 or an air gap
- ☐ **B** An atmospheric vacuum breaker
- ☐ **C** A single check valve of any listed type
- ☐ **D** A reduced pressure principle assembly conforming to ASSE 1013 only

☐ Sure ☐ Unsure ☐ Guess

08

P-08

Fixture requirements

In an occupancy other than a restaurant where three or more drinking fountains are required, how many of the required drinking fountains may be replaced by water dispensers under 2024 IPC Section 410.4?

- ☐ **A** None
- ☐ **B** Exactly one fountain, regardless of the number required
- ☐ **C** Up to 100 percent, provided at least two drinking fountains remain
- ☐ **D** Not more than 50 percent

☐ Sure ☐ Unsure ☐ Guess

WHY THE RIGHT ANSWER IS RIGHT.

01

C

02

B

03

A

04

D

05

B

06

C

07

A

08

D

01. **C. 5 DFU**

Table 709.1 and footnote f

Table 709.1 lists a bathroom group with a 1.6 gpf water closet at 5 dfu. The group is rated as one load, so you do not add up its individual fixtures. Footnote f says that fixtures added to a bathroom group add their own dfu value to the group count.

EXAM TRAP 6 dfu is the Table 709.1 value for a bathroom group whose water closet flushes more than 1.6 gpf. Read the flush rate in the row before taking the number.

02. **B. 1-1/2 INCHES**

Table 709.1

Table 709.1 lists "Kitchen sink, domestic with food waste disposer, dishwasher or both" at 2 dfu with a minimum trap size of 1-1/2 inches. That is the same trap size and dfu value as a plain domestic kitchen sink. Footnote a sends traps larger than 3 inches to Table 709.2.

EXAM TRAP Many candidates assume a disposer or dishwasher pushes the trap up to 2 inches. The table keeps it at 1-1/2 inches; 2-inch minimum traps in Table 709.1 belong to rows such as automatic clothes washers, floor drains and floor sinks.

03. **A. INCREASE THE VENT BY ONE NOMINAL PIPE SIZE FOR ITS ENTIRE DEVELOPED LENGTH**

Section
906.2

Section 906.2 says vents exceeding 40 feet in developed length shall be increased by one nominal pipe size for the entire developed length of the vent pipe. The same section sets the vent at not less than one-half the required diameter of the drain served and never less than 1-1/4 inches.

EXAM TRAP Upsizing only the length past 40 feet is wrong. The code wording is "for the entire developed length of the vent pipe."

04. **D. 4 INCHES**

Section 504.6, item 10

Item 10 of Section 504.6 requires the discharge pipe to terminate not more than 6 inches above, and not less than two times the discharge pipe diameter above, the floor or flood level rim of the waste receptor. For a 3/4-inch pipe, two diameters is 1-1/2 inches, so the window is 1-1/2 to 6 inches and 4 inches is the only compliant choice.

EXAM TRAP 1 inch looks safe because it is close to the floor, but it is less than two pipe diameters (1-1/2 inches for a 3/4-inch pipe), so it fails the minimum.

AND WHY THE TRAPS **CATCH PEOPLE.**

05. **B. ASME A112.36.2M**

Section 708.1.11.2

Section 708.1.11.2, Floor cleanout assemblies, requires cleanout assemblies in accordance with ASME A112.36.2M where it is necessary to protect a cleanout plug from vehicular traffic loads. The standard is titled Cleanouts in the code's referenced standards.

EXAM TRAP ASME A112.4.1 also appears in the 2024 IPC, but in Section 504.6 item 13 as an approval standard for relief valve discharge piping materials. It has nothing to do with cleanouts.

06. **C. NOT LESS THAN 18 INCHES AND NOT GREATER THAN 42 INCHES**

Section 802.4.3

Section 802.4.3 says standpipes shall be individually trapped and shall extend not less than 18 inches but not greater than 42 inches above the trap weir. The 2024 text also requires access to standpipes and drains for rodding.

EXAM TRAP Choices that keep the 18-inch minimum but cut the maximum are wrong; the 2024 IPC allows up to 42 inches. The measurement is taken from the trap weir, not from the floor.

07. **A. A BACKFLOW PREVENTER CONFORMING TO ASSE 1022 OR AN AIR GAP**

Section 608.17.1.1

Section 608.17.1.1 requires a backflow preventer conforming to ASSE 1022 or an air gap. It adds that the portion of the device downstream from the second check valve, and the piping downstream from it, shall not be affected by carbon dioxide gas.

EXAM TRAP ASSE 1013 looks like the stronger, safer answer, but the 2024 text names ASSE 1022 or an air gap. Check this one again when your state moves to a newer edition.

08. **D. NOT MORE THAN 50 PERCENT**

Section 410.4

Section 410.4 permits water dispensers to be substituted for not more than 50 percent of the required number of drinking fountains where three or more fountains are required. The same section says restaurants that provide drinking water in a container free of charge do not need drinking fountains.

EXAM TRAP "Up to 100 percent" is not the 2024 rule. The limit is 50 percent, and only where three or more fountains are required. Check this one again when your state moves to a newer edition.

FROM THE FIELD

Your note here: one sentence in your own voice on the mistake you see apprentices make most on this topic. Every module carries one.

FIXTURE UNITS TO PIPE SIZE.

One horizontal fixture branch serves four fixtures, with no water closet. Find the load, then the smallest branch that carries it.

- 1

Look up each fixture in Table 709.1. The kitchen sink row already includes the disposer and dishwasher, so the dishwasher isn't counted again.
- 2

Total the load: $2 + 2 + 2 + 1 = 7$ dfu.
- 3

Pick the table. Section 710.1 sends horizontal fixture branches to Table 710.1(2). Branches of the building drain use Table 710.1(1) instead.
- 4

Read the horizontal branch column and take the smallest size rated for at least 7 dfu. A 2-inch branch carries 6, one short.
- 5

Check the traps against Table 709.1. None is larger than the branch.

FIXTURE	DFU	TRAP
Kitchen sink, domestic, with disposer and dishwasher	2	1-1/2 in
Laundry tray	2	1-1/2 in
Service sink	2	1-1/2 in
Lavatory	1	1-1/4 in
Total	7	

Table 709.1

BRANCH	MAX DFU
1-1/2 in	3
2 in	6
2-1/2 in	12
3 in	20

Table 710.1(2), horizontal fixture branch

2-1/2 inch branch

7 dfu on the branch. A 2-inch branch is limited to 6 dfu under Table 710.1(2), so the minimum is 2-1/2 inches.

TRY IT YOURSELF

Swap the laundry tray for a second lavatory. What is the new load, and what is the smallest branch? Answer: $2 + 1 + 2 + 1 = 6$ dfu, and a 2-inch branch carries exactly 6 under Table 710.1(2), so 2 inches works.

Values read from IPC 2024 Table 709.1 and Table 710.1(2), as printed in ICC's 2024 Group A proposed changes to the IPC (March 2024), unmarked 2024 text only. Checked Oct. 29, 2026.

LEARNED MEANS RIGHT THREE TIMES.

Getting a question right once mostly proves you remember the page. Log each question; it counts as learned after three correct tries on different days.

ID	TOPIC	TRY 1	TRY 2	TRY 3
P-01	Drainage fixture units			
P-02	Trap requirements			
P-03	Venting			
P-04	Water heater relief valves			
P-05	Cleanouts			
P-06	Indirect waste			
P-07	Water supply and backflow			
P-08	Fixture requirements			

WHERE THE NUMBERS LIVE

Tab these before test day. The questions in this sample come from these eight places.

Table 709.1	Fixture units and minimum trap sizes	Table 710.1(2)	Horizontal branches and stacks
Section 504.6	Relief valve discharge	Section 608	Backflow protection
Section 708	Cleanouts	Section 802	Indirect waste and standpipes
Section 906	Vent pipe sizing	Section 410	Drinking fountains

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\$4,740 your 60%

BASE / 0.5% BUY
200 buyers x \$79 = \$15,800

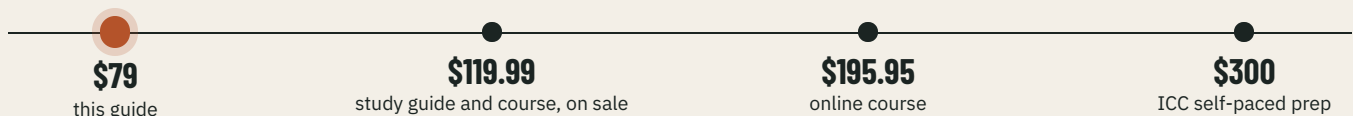
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- 01 Your name, your voice. Nothing goes live without your yes.
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