

Highlighting Guide for Commercial Plumbing License

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International Plumbing Code

Please highlight these sections within the IPC-2018 and 2021 code book, then look-up the keywords in your index, highlight the keyword(s), followed by the section number, highlight there as-well. Lastly go to the table of contents highlight the keyword(s) there! By now you should be able to locate that area of the code.

	<u>2018 Section</u>	<u>2021 Page</u>	<u>Keyword(s) that are italicized are in the index</u>
Chapter 1 Scope and Administration			
	106.1	1-3	<i>permits</i>
	107.1	1-5	<i>inspections</i>
	103.1	1-2	<i>administration</i>
Chapter 2 Definitions			
	202	2-1	definitions, <i>air gap</i> (drainage system)
	202	2-2	definitions, <i>backwater valve</i> , where required
	202	2-4	definitions, <i>fixture drain</i>
Chapter 3 General Regulations			
	305.4	3-2	<i>pipng protection</i> , freezing
	307.5/App. C	3-3	<i>structural safety</i> , trench location 45° from horizontal
	T308.5	3-4	<i>hangers & supports</i> , spacing
Chapter 4 Fixtures, Faucets, and Fixture Fittings			
	403.1 table	4-1	<i>plumbing fixtures</i> , minimum fixtures
	409.2	4-7	<i>dishwashing machine</i>
	416	4-10	<i>food waste-disposer</i>

Chapter 5 Water Heaters			
	501.6	5-1	<i>water heaters, water temp. from tankless heater</i>
	504.5	5-2	<i>water heaters, relief valves, safety devices</i>
Chapter 6 Water Supply and Distribution			
	608	6-11	<i>potable water, protection of</i>
	608.14.6	6-14	<i>atmospheric vacuum breaker</i>
Chapter 7 Sanitary Drainage			
	708.1.5	7-7	<i>cleanouts, same size & 3 exceptions</i>
	T709.1	7-9	<i>drainage fixture units fix. & groups</i>
	T710.1 (1)	7-10	<i>building drains & building sewers (footnote a)</i>
	712.3.5	7-11	<i>ejector connection, pump connection to drainage</i>
Chapter 8 Indirect/Special Waste			
	802.3	8-1	<i>indirect wastes, installation</i>
	802.4.3	8-2	<i>standpipe drain</i>
	803.1	8-2	<i>special wastes, indirect wastes</i>
Chapter 9 Vents			
	902.2	9-1	<i>vent, sizing, materials</i>
	903.1	9-1	<i>vents & venting, vent terminal</i>
	905.5	9-2	<i>vent connections & grades, height above fixtures</i>
	T909.1	9-3	<i>vents & venting, distance from trap</i>
	912.1	9-5	<i>wet venting</i>

	914	9-6	<i>vents & venting</i> , circuit or loop, circuit venting
	917.7	9-8	<i>offsets</i> , vents for stack, lower section
Chapter 10 Traps, Interceptors and Separators			
	1003.5	10-2	<i>interceptors & separators</i> , sand
Chapter 11 Storm Drainage			
	Fig. 1106.1	11-3	100 year hourly rainfall rate
	T1106.2	11-3	<i>storm drains</i> horizontal size drain piping
	T1106.3	11-3	size of vertical storm drain piping, figure
	1110.4	11-3	<i>controlled flow roof drain systems</i> , minimum number
Chapter 12 Special Piping and Storage Systems			
Chapter 13 Nonpotable Water Recycling Systems			
	1301.3	13-1	<i>nonpotable water</i> , signage required
	608.9.2.1	6-13	<i>graywater</i> , color of distribution piping
Chapter 15 Referenced Standards			
	ANSI to UL	15-1	<i>standards</i> , referenced chapter 15

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Keywords	2018 Page	2018 Section	2021 Page	2021 Section
[A]* Piping systems	1	101.2.2	1-1	101.2.2
[A]_Alternative materials	3	105.2	1-4	105.2
[A] Permits	5	106.6.1	1-4	106.6.1
APPLIANCE	11	sect. 202	2-1	sect. 202
[M] BRAZING	12	sect. 202	2-2	sect. 202
[M]_CHIMNEY, CLOTHES DRYER	12	sect. 202	2-2	sect. 202
[A] CODE OFFICIAL, COMBUSTION AIR	12	sect. 202	2-2	sect. 202
DIRECT-VENT APPLIANCES	13	sect. 202	2-3	sect. 202
REGULATOR GAS APPLIANCE	16	sect. 202	2-8	sect. 202
[BS] Cutting, notching & bore wood	20	sect. 302.3	3-2	sect. 302.3
COMBUSTION (ventilation, and dilution air)	21	sect. 304.1	3-3	sect. 304.1
Identification	31	sect. 401.5	4-1	sect. 401.5
Gas piping	36	Table 402.4(4)	4-6	Table 402.4(4)
Threads	70	Table 403.9.2	4-40	Table 403.8.2
Metallic, fittings	70	sect. 403.10.4	4-41	sect. 403.10.4
Piping, tracer wire	73	sect. 404.17.3	4-43	sect. 404.17.3
Valves, shutoff (same room)	77	sect. 409.5.1	4-47	sect. 409.5.1
Piping support	82	Table 415.1	4-53	Table 415.1
Vents	86	Sect. 502.1	5-2	Sect. 502.1
Clearances, vent connectors	94	sect. 503.10.8	5-11	sect. 503.10.5

Keywords	2018 Page	2018 Section	2021 Page	2021 Section
CATEGORY I APPLIANCE VENTING	96	sect.504.1 definitions	5-13	sect.504.1 definitions
Vent sizing, multi-appliance	98	Table 504.3.2	5-15	Table 504.3.2
Vent sizing, single appliances	102	Table 504.2(1)	5-13	Table 504.2(1)
Liquefied Petroleum Gas (Size of pipe)	143	Appendix A (Longest Length Method)	App. A-8	Appendix A (Longest Length Method)

Mathematics for Plumbers & Pipefitters 8th Editions

Unit	Topic	Pages
Unit 2	Formulas	pages 9-16
Unit 3	Solving Formulas/Equations	pages 17-20
Unit 7	Standard Weight Pipe	pages 35-37
Unit 8	Allowance for threaded fittings	pages 38-41
Unit 9	Copper tubing	pages 42-43 / 42-43
Tab in appendix A	DATA #4	page 263
Unit 10	Allowances for copper fittings	pages 44-45
Tab in appendix A	DATA #5	page 264
Unit 11	Plastic pipe	pages 46-47
Tab in appendix A	DATA #2	page 261
Unit 12	Allowances for plastic fittings	pages 48-49
	DATA #5	page 262
Unit 13 & 14	Welded steel pipe	pages 50-57
Unit 15	Equal Spacing	pages 58-60
Tab	DATA #5 & #7	pages 264 & 266
Unit 17	Offsets, diagonals, rise, & run	pages 64-65 (understand run and rise)
Unit 19	45 degree diagonal & pipe length	pages 68-69 (diagonal = offset X 1.414)
Unit 26	Pipe bending	pages 100-104
Unit 27	Cast iron pipe	pages 105-106 (lengths 60" or 120")
Unit 28	Cast iron assemblies with various bends	pages 107-111
Tab in appendix A	DATA #12, #13, #20, & #21	pages 272, 273, 281, & 282
Unit 31	Single loop back-venting	pages 119-122
Unit 32	Grade, percent grade, drop & run	pages 123-125
Unit 33	Elevation & grade	pages 126-126
Unit 43	Shower pan or safe	pages 163-164

Unit	Topic	Pages
Unit 47	Water measures	pages 172-173
Unit 53	Water pressure	pages 188-189 (0.434 pounds)
Tab in appendix	DATA #2, #3,#4, #15, #22, #23, #24, #25	

This highlighting guide is a partial listing of items a Master Plumber must be able to find in a timely fashion to obtain a license. We look forward to you passing the exam on the first round.