Registration form

Plumbing 101 CEU Training Course 48 HOUR RUSH ORDER PROCESSING FEE ADDITIONAL \$50.00

Start and Finish Dates:	You will have 90 days from this date in order to complete this course
List number of hours worked on assignment m California DPH is 5 hours and all other States is 8 h	nust match State Requirementnours.
Name_ I have read and understood the disclaimer notice on page	Signature re 2. Digitally sign XXX
Address:	
City	StateZip
Email	_ Fax ()
Phone: Home ()	Work ()
Operator ID#	Exp Date
Please circle/check which certification you Water Treatment Distribution	
Wastewater Treatment Other	
	C PO Box 3060, Chino Valley, AZ 86323 (928) 272-0747 <u>info@tlch2o.com</u>
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We will stop mailing the certificate of completion so we need either your fax number or email address. We will e-mail the certificate to you, if no e-mail address; we will fax it to you.

DISCLAIMER NOTICE

I understand that it is my responsibility to ensure that this CEU course is either approved or accepted in my State for CEU credit. I understand State laws and rules change on a frequent basis and I believe this course is currently accepted in my State for CEU or contact hour credit, if it is not, I will not hold Technical Learning College responsible. I fully understand that this type of study program deals with dangerous, changing conditions and various laws and that I will not hold Technical Learning College, Technical Learning Consultants, Inc. (TLC) liable in any fashion for any errors, omissions, advice, suggestions or neglect contained in this CEU education training course or for any violation or injury, death, neglect, damage or loss of your license or certification caused in any fashion by this CEU education training or course material suggestion or error or my lack of submitting paperwork. It is my responsibility to call or contact TLC if I need help or assistance and double-check to ensure my registration page and assignment has been received and graded. It is my responsibility to ensure all information is correct and to abide with all rules and regulations.

State Approval Listing Link, check to see if your State accepts or has pre-approved this course. Not all States are listed. Not all courses are listed. If the course is not accepted for CEU credit, we will give you the course free if you ask your State to accept it for credit.

Professional Engineers; Most states will accept our courses for credit but we do not officially list the States or Agencies. Please check your State for approval.

State Approval Listing URL...

http://www.abctlc.com/downloads/PDF/CEU%20State%20Approvals.pdf

You can obtain a printed version of the course from TLC for an additional \$169.95 plus shipping charges.

AFFIDAVIT OF EXAM COMPLETION

I affirm that I personally completed the entire text of the course. I also affirm that I completed the exam without assistance from any outside source. I understand that it is my responsibility to file or maintain my certificate of completion as required by the state or by the designation organization.

Grading Information

In order to maintain the integrity of our courses we do not distribute test scores, percentages or questions missed. Our exams are based upon pass/fail criteria with the benchmark for successful completion set at 70%. Once you pass the exam, your record will reflect a successful completion and a certificate will be issued to you.

CERTIFICATION OF COURSE PROCTOR

Technical Learning College requires that our students who takes a correspondence or home study program course must pass a proctored course reading, quiz and final examination. The proctor must complete and provide to the school a certification form approved by the commission for each examination administered by the proctor.

Instructions . When a student completes the course work, fill out the blanks in this section and provide the form to the proctor with the examination.				
Name of Course:				
Name of Licensee:				
Instructions to Proctor . After an examination is administered, complete and return this certification and examination to the school in a sealed exam packet or in pdf format.				
I certify that:				
 I am a disinterested third party in the administration of this examination. I am not related by blood, marriage or any other relationship to the licensee which would influence me from properly administering the examination. The licensee showed me positive photo identification prior to completing the examination. The enclosed examination was administered under my supervision on The licensee received no assistance and had no access to books, notes or reference material. I have not permitted the examination to be compromised, copied, or recorded in any way or by any method. Provide an estimate of the amount of time the student took to complete the assignment. 				
Time to complete the entire course and final exam				
Notation of any problem or concerns:				
Name and Telephone of Proctor (please print):				
Signature of Proctor				

Plumbing 101 CEU Course Answer Key

Name			Telephone #			
-	Did you check with your State agency to ensure this course is accepted for credit? No refunds. Method of Course acceptance confirmation. Please fill this section					
Website Telephone Call Email Spoke to						
Did you receive th	e approval nur	nber, if a	pplica	able?		
You are responsible Please call us to en			ves th	ne Assignment and	Regis	stration Key.
You can use Adob	e Acrobat DC	Program	to co	mplete the assig	nmen	t.
Please write	down any que	stions th	at ca	nnot be found or	has p	roblems
Pleas				only one correct	answ	er
1. A B C D	19. A B C			A B C D	55.	ABCD
2. A B C D	20. A B C	D	38.	ABCD	56.	ABCD
3. A B C D	21. A B C	D	39.	ABCD	57.	АВСD
4. A B C D	22. A B C	D	40.	ABCD	58.	ABCD
5. A B C D	23. A B C	D	41.	ABCD	59.	ABCD
6. A B C D	24. A B C	D	42.	ABCD	60.	ABCD
7. A B C D	25. A B C	D	43.	ABCD	61.	ABCD
8. A B C D	26. A B C	D	44.	ABCD	62.	ABCD
9. A B C D	27. A B C	D	45.	ABCD	63.	ABCD
10. A B C D	28. A B C	D	46.	ABCD	64.	ABCD
11. A B C D	29. A B C	D	47.	ABCD	65.	ABCD
12. A B C D	30. A B C	D	48.	ABCD	66.	ABCD
13. A B C D	31. A B C	D	49.	ABCD	67.	ABCD
14. A B C D	32. A B C	D	50.	ABCD	68.	ABCD
15. A B C D	33. A B C	D	51.	ABCD	69.	ABCD
16. A B C D	34. A B C	D	52.	ABCD	70.	ABCD
17. A B C D	35. A B C	D	53.	ABCD	71.	ABCD
18. A B C D	36. A B C	D	54.	ABCD	72.	ABCD

73. A B C D	105. A B C D	137. A B C D	169. A B C D
74. A B C D	106. A B C D	138. A B C D	170. A B C D
75. A B C D	107. A B C D	139. A B C D	171. A B C D
76. A B C D	108. A B C D	140. A B C D	172. A B C D
77. A B C D	109. A B C D	141. A B C D	173. A B C D
78. A B C D	110. A B C D	142. A B C D	174. A B C D
79. A B C D	111. A B C D	143. A B C D	175. A B
80. A B C D	112. A B C D	144. A B C D	176. A B
81. A B C D	113. A B C D	145. A B C D	177. A B
82. A B C D	114. A B C D	146. A B C D	178. A B
83. A B C D	115. A B C D	147. A B C D	179. A B
84. A B C D	116. A B C D	148. A B C D	180. A B
85. A B C D	117. A B C D	149. A B C D	181. A B C D
86. A B C D	118. A B C D	150. A B C D	182. A B C D
87. A B C D	119. A B C D	151. A B C D	183. A B C D
88. A B C D	120. A B C D	152. A B C D	184. A B C D
89. A B C D	121. A B C D	153. A B C D	185. A B C D
90. A B C D	122. A B C D	154. A B C D	186. A B
91. A B C D	123. A B C D	155. A B C D	187. A B C D
92. A B C D	124. A B C D	156. A B C D	188. A B C D
93. A B C D	125. A B C D	157. A B C D	189. A B
94. A B C D	126. A B C D	158. A B	190. A B
95. A B C D	127. A B C D	159. A B C D	191. A B
96. A B C D	128. A B C D	160. A B C D	192. A B
97. A B C D	129. A B C D	161. A B C D	193. A B C D
98. A B C D	130. A B C D	162. A B C D	194. A B C D
99. A B C D	131. A B C D	163. A B C D	195. A B C D
100. A B C D	132. A B C D	164. A B C D	196. A B
101. A B C D	133. A B C D	165. A B C D	197. A B
102. A B C D	134. A B C D	166. A B C D	198. A B C D
103. A B C D	135. A B C D	167. A B C D	199. A B C D
104. A B C D	136. A B C D	168. A B C D	200. A B C D

Disclaimer Notice

Amount of Time for Course Completion – How many hours you spent on course?				
Must match State Hour Requirement (Hours)				
I understand that I am 100 percent responsible to ensure that TLC receives the Assignment and Registration Key and that it is accepted for credit by my State or Providence. I understand that TLC has a zero tolerance towards not following their rules, cheating or hostility towards staff or instructors. I need to complete the entire assignment for credit. There is no credit for partial assignment completion. My exam was proctored. I will contact TLC if I do not hear back from them within 2 days of assignment submission. I will forfeit my purchase costs and will not receive credit or a refund if I do not abide with TLC's rules. I will not hold TLC liable for any errors, injury, death or non-compliance with rules. I will abide with all federal and state rules and rules found on page 2.				
Please Sign that you understand and will abide with TLC's Rules.				
Signature				

Please write down any questions you were not able to find the answers or that have errors.

Please double check with your State Agency or Plumbing Authority on current plumbing codes for codes change and there are several different versions of these codes. This course is a general overview of various accepted plumbing code information but always check with your Approval Agency before doing any plumbing work.

When Finished with Your Assignment...

REQUIRED DOCUMENTS

Please scan the Registration Page, Answer Key, Proctoring report, Survey and Driver's License and email these documents to info@TLCH2O.com.

IPhone Scanning Instructions

If you are unable to scan, take a photo of these documents with your **iPhone** and send these photos to TLC, info@TLCH2O.com.

FAX

If you are unable to scan and email, please fax these documents to TLC, if you fax, call to confirm that we received your paperwork. (928) 468-0675

Rush Grading Service

If you need this assignment graded and the results mailed to you within a 48-hour period, prepare to pay an additional rush service handling fee of \$50.00. This fee may not cover postage costs. If you need this service, simply write RUSH on the top of your Registration Form. We will place you in the front of the grading and processing line. Thank you...

Please e-mail or fax this survey along with your final exam

PLUMBING 101 CEU TRAINING COURSE CUSTOMER SERVICE RESPONSE CARD

NAME:											
E-MAIL	E-MAILPHONE										
PLEASE C ANSWER I					BY CIR	CLING	G THE	NUMBE	R OF TI	HE APP	PROPRIAT
Please rate Very Easy	the dif	fficulty 1	of you 2	r cours	se. 4	5	Very	Difficult			
Please rate Very Easy							Very	Difficult			
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Plumbing 101 CEU Course Assignment

The Plumbing 101 CEU Assignment is available in Word on the Internet for your convenience, please visit www.ABCTLC.com and download the assignment and e mail it back to TLC.

You will have 90 days from the start of this course to complete in order to receive your Professional Development Hours (**PDHs**) or Continuing Education Unit (**CEU**). A score of 70 % is necessary to pass this course. If you should need any assistance, please email all concerns and the completed manual to info@tlch2o.com.

We would prefer that you utilize the enclosed answer sheet in the front, but if you are unable to do so, type out your own answer key. Please include your name and address on your manual and make copy for yourself.

Multiple Choice, please select only one answer per question. There are no intentional trick questions.

Water Service Pipe Installation Underground Water Service.	
Water service pipe shall be installed outside the?	
A. Contamination C. Maximum frost penetration of the local area	
B. Foundation wall D. None of the above	
Water service and building drain or building sewer may be installed in separate trenche with a minimum offeet horizontal separation?	es
A. 10 C. 5	
B. 20 D. None of the above	
 According to the text, the water service and the building drain or building sewer n installed in the same trench provided that the water service is placed on a solid shelf a mil of inches above the building drain or building sewer. 	•
A. 18 C. 36	
B. 24 D. None of the above	
4. The minimum depth for any water service pipe shall be at least	
inches or the maximum frost penetration of the local area, whichever is of greater depth.	
A. 18 C. 36	
B. 24 D. None of the above	
D. 14 D. Notile of the above	
5. No water service pipe shall be installed or permitted outside of a building or in which of following unless provisions are made to protect such pipe from freezing?	the
A. An exterior wall C. Beneath a sanitary sewer or drain	
B. Same trench D. None of the above	

(s) Means plural or singual use

 Potable Water Piping and Sanitary Sewer Crossing Installation Requirements. Where it is necessary for the potable water piping to pass above or below a sanitary sewer such piping shall be installed with a minimum vertical separation of inches for a distance of feet on either side from the center of the sanitary sewer. A. 18-10 C. 18-24 B. 24-8 D. None of the above
7. Where it is necessary for the potable water piping to pass beneath a sanitary sewer or drain the sanitary sewer or drain shall be constructed of materials as specified in Approved Building Drainage/Vent Pipe for building drains, and shall extend on each side of the crossing to a distance of at least feet as measured at right angles to the water line. A. 18
Wet/Dry Bore: 8. Casing pipe shall be sealed with a casing seal and extend feet or either side of the center of the sanitary sewer pipe? A. 18
Stop-And-Waste Valve 9. Frost free hydrants and fire hydrants shall not be considered? A. Stop-and-waste valves C. Gate valves B. Globe valves D. None of the above
Potable Water Pumping and Storage Equipment 10. Potable water pumps, tanks, filters, and all other appliances and devices shall be protected against? A. Relief valve C. Maximum allowable working pressure B. Contamination D. None of the Above
Water Supply Tanks. 11. Which of the following terms shall be properly covered to prevent contamination of the water supply? A. Supply outlet C. Auxiliary pressure (booster) system B. Potable water supply tanks D. None of the above
Cleaning, Painting, Repairing Water Tanks. 12. A potable water supply tank used for which of the following shall not be lined, painted or repaired with any material which affects either the taste or the potability of the water? A. Domestic purposes C. The supply outlet B. Potability of the water D. None of the above
 13. Tanks shall be disconnected from the system during such operations to prevent any which of the following from entering the system? A. Foreign substance C. Auxiliary pressure systems B. An air gap D. None of the above
(s) Means plural or singual use

Po	stable Water Supply Tanks and Auxiliary Pressure Tanks
14.	. When the water pressure from which of the following is insufficient during periods of peak
flov	w or due to the building height to supply all fixtures, the rate of supply shall be supplemented
by	a gravity tank or auxiliary pressure system?
Δ	Public water supply main C Supply outlet

A. Public water supply main

C. Supply outlet

B. Auxiliary pressure (booster) system

D. None of the above

15. Which of the following shall not substitute for adequate sizing of water distribution piping within the building?

A. Vacuum relief valve C. Auxiliary pressure systems

B. An air gap D. None of the above

Tank Supply Inlet and Outlet.

16. Which of the following to the tank shall have a minimum air gap of at least six (6) inches?

A. Water supply inletB. Potability of the waterC. Supply outletD. None of the above

Overflow For Water Supply Tanks.

17. Overflow pipes for which of the following shall be indirectly connected to the drainage system with an air gap of at least six (6) inches?

A. Water supply inletB. Gravity tank(s)C. Supply outletD. None of the above

18. Which of the following shall be full sized, unrestricted and screened with 24-mesh per inch stainless steel or bronze screen?

A. Overflow pipes

C. The supply outlet

D. None of the above

Size of Overflow.

19. Overflow drains for gravity water supply tanks shall have an area of at least twice the size of which of the following?

A. Vacuum relief valve

C. Auxiliary pressure systems

D. Nane of the shows

B. Supply pipe D. None of the above

Drains.

20. Water supply tanks shall be provided with which of the following located at their lowest point and discharge through an indirect waste with an air gap of twice the diameter of the drain line?

A. Full sized C. The supply outlet B. Valved drain lines D. None of the above

21. Drain line and valve shall have no restrictions and need not exceed _____inches in diameter.

A. 8 C. 2

B. 12 D. None of the above

Gravity and Suction Tanks.

22. Which of the following used for potable water supply or to supply fire-fighting equipment only shall be equipped with tight, overlapping covers?

A. Tanks C. A common shut-off valve

B. Water service D. None of the above

Pressure Tanks	
23. Pressure tanks used f	for supplying water to the water distribution system, or to supply
standpipes for fire equipmen	nt only, shall be equipped with a vacuum relief valve located on?
A. Top of the tankB. Center of the tank	C. Bottom of the tank
B. Center of the tank	D. None of the above
Water Supply Control Valv	
	e shall be located near the curb or property line and immediately
	n the inlet or outlet side of the water meter, when underground, this
valve shall be located in a?	O Otan Iran an arataman lit
A. Shut-off valveB. Water supply system	C. Stop box or meter vault D. None of the above
	nions on which of the following, but is not required to have a shut-off
	meter if it is inside a building? C. The water supply system
B. Inlet/outlet openings	
B. Interoduct openings	b. Notic of the above
•	with an open area at least that of the water service shall be provided
for all meters?	C. Dooleflass massantan
A. A shut-off valve	C. Backflow preventer D. None of the above
B. A full-port valve	D. Notile of the above
Tank Controls.	
27. Supply lines taken from	which of the following shall be valved at or near their source?
A. Water service	C. The water supply system D. None of the above
B. Pressure or gravity tanks	D. None of the above
Water Heating Equipment.	
	provided in the cold water branch line within feet of
each water storage tank or e	each water heater.
A. 5 C. 3	
B. 6 D. None of the	ne above
Separate Controls for Each	h Family Unit.
	ings, the water service or water distribution pipe to each family uni
shall be controlled by an ar	rangement of shut-off valves which permits each group of fixtures
and	to be shut off without interference with the water supply to any
other family unit or portion of	f the building?
A. Each individual fixture	C. The water supply system
B. Water meter	D. None of the above
Buildings Other Than Dwe	llings.
	installed to permit the water supply to all equipment and/or fixtures
in each separate room to be	shut off without interfering with to any
other room or portion of the l	building?
A. A shut-off valve C. Sto	
B. Water supply D. No	ne of the above

31. For plumbing equipment or fixtures that are installed back-to-back in adjacent rooms, e.g., in adjacent restrooms, a common shut-off valve may be used to shut off
to the back-to-back fixtures in no more than 2 adjacent rooms?
A. Water supply C. A common shut-off valve
B. Water distribution pipe D. None of the above
Health Care Facilities.
32. In the residence rooms of health care facilities to each resident unit or
back-to-back rooms shall be controlled by an arrangement of line valves that permits each
group of fixtures? A. Water supply C. A common shut-off valve
B. Water distribution pipe D. None of the above
Flushing/Disinfection of Potable Water System
33. If the potable water supply serving the water supply system is chlorinated, e.g., a
community water system, or appropriate repaired portion, shall be flushed
with clean, potable water until no dirty water appears at the point of outlet.
A. Water supply systemB. Water mainC. Community systemD. None of the above
Non-Chlorinated Water Supply. 34. The pipe system shall be flushed with clean, potable water until
appears at the point of outlet?
A. No dirty water C. Water sample comes back postivite
B. Chlorine solution D. None of the above
35. The system shall be filled with a chlorine solution containing at least parts per
million of chlorine, shall be valved off and allowed to stand for hours.
A. 24 - 48 C. 10 -24
B. 50 - 24 D. None of the above
36. Following the required contact time, the system shall be flushed with clean, potable water
until the chlorine level in the water discharging from the system is within acceptable limits for
potable water, i.e., generally until the water has?
A. Chlorine solutionB. No detectable chlorine odorC. Potable waterD. None of the above
B. No detectable chlorine odor D. None of the above
37. To ensure that the water supplied by the water system is safe for drinking, a
taken from the water supply system shall be secured?
A. Water supply sample C. Bacteriological examination of a water sample
B. Potable water sample D. None of the above
Water Service Sizing
38. If flushometers or other devices requiring a high rate of water flow are used,
A. Water service pipe shall be designed and installed to provide this additional flow?
B. An air chamber D. None of the above

Demand Load.	
number and types of fixtures in	
A. Water service demand loadB. Any plumbing fixture	
distribution systems shall prov	The design and installation of the hot and cold water building vide a volume of water at the required rates and pressures to satisfactory operation of fixtures, fittings, appliances and othe ods of?
unless provisions are made to	es shall be installed or or in an exterior wall protect such pipe from freezing? C. Permitted outside of a building D. None of the above
Minimum Water Pressure. 43. The minimum constant was shall be (at least) A. 35 C. 15 B. 20 D. None of the a	
water outlet when the flow in th pressure tank or gravity tank of	m is below the minimum p.s.i. at the highest e system is at peak demand, an automatically controlled a capacity to supply sections of the building installation which ctly from the public water main.
system, there shall be installed	ept those used for fire protection is used on an auxiliary pressure a low-pressure cut-off switch on the booster pump to prevent the pump. p.s.i. on the suction side of the pump.

46. A shut-off valve shall be installed on the suction side of the water system and within
feet from the pump suction inlet, and a pressure gauge shall be installed between the shut-off
valve and pump?
A. 35 C. 5
B. 20 D. None of the above
Water Hammer.
47. All building water supply systems shall be provided with or approved
mechanical devices or water hammer arrestors to absorb high pressures?
A. Air chamber(s) C. An auxiliary pressure system
A. Air chamber(s)B. Any plumbing fixtureC. An auxiliary pressure systemD. None of the above
Air Chambers.
48. Which of the following with a volume equivalent to one with the dimension listed above ma also be used?
A. Pressure relief valve(s) C. Combination pressure-temperature relief valve
B. An air chamber D. None of the above
B. None of the above
Excessive Static Water Pressure.
49. When water main pressure exceeds p.s.i., a pressure reducing valve and a
strainer with a by-pass relief valve shall be installed in the water service pipe near the entrance
to the building to reduce the water pressure to p.s.i. or lower, except where the
water service pipe supplies water directly to a Water pressure booster system.
A. 30 - 80 C. 80 -80
B. 80 - 45 D. None of the above
50. When the water pressure exceeds p.s.i. at any plumbing fixture, a
pressure reducing valve, pressure gauge and a strainer with a By-pass relief valve.
A. 30 C. 80
B. 45 D. None of the above
Variable Street Pressures.
51. Which of the following terms has a wide fluctuation in pressure, the water distribution
system shall be designed for minimum pressure available at the main?
A. Atmosphere C. Full water main pressure
B. Water main D. None of the above
Hat Water Ormale, and Distribution
Hot Water Supply and Distribution
52. All equipment used for heating and storage ofwater shall bear the marking of an approved testing agency.
A. Hot C. Cold
B. Potable D. None of the above
b. I diable B. None of the above
53. Which of the following terms shall use a double-walled heat exchanger that is exposed or
vented to the atmosphere between the walls?
A. A solar-heated system C. Full water main pressure
B. A pressure relief valve D. None of the above

 Heat exchangers may be conditioning chemicals in the 			
the heat exchanger from the A. A pressure gradient moni B. Water heater's cold wate	potable water system?	dronneumatic water s	
55. If pressure on the transfer fluid pressure, an au A. Full water main pressure B. Potable water side	reaches a dible alarm shall be ac C. A pressure relief v	a pressure less than r ctivated? valve	10 p.s.i. above the toxic
56. Heat exchangers using a shall be separated from the particle of the separated from the separated from the particle of the separated from the separated fr	ootable water by double	e wall construction?	
A. Toxic transfer fluid B. Heat exchanger	D. None of the above	or elevated water supp e	ply tank system
Direct Fired Instantaneous H 57. A properly sized temper of the heater, shall be installe immersed in the tempered w A. Mixing valve B. Pressure relief valve	ature and pressure reli ed on the tempered lind ater line as close as po C. Full water main pr	e with the temperature assible to the? dessure	
Water Heaters Used for Spa 58. Any water heater to be u must conform to ANSI Z21.1 A. Cold water line B. Hot water supply	ised for space heating, 0.1a-1991? C. Proper terminal he	eating device	of the following terms,
59. The mixing valve shall b reaching the plumbing fixture A. 110° C. 120° B. 240° D. None of th	es.	ratures exceeding	F from
60. A single check valve sha A. Cold water line C. Wa B. Water heater D. No	ater heater's cold water		g the?
61. A properly sized and apposed of the contract of the contra			
Cold water line No shut-off valve	C. Proper terminal heD. None of the above	eating device	
62. Valves supplying hot wa of a 1-inch orifice? A. 1-inch C. 12-inches B. 2-inches D. None of th		unit for space heating	g shall have a minimum

63. The water heater instructions shall have a statement specifying that piping and component connected to the water heater for the space heating application shall be suitable for use with potable water, and Water heater shall not exceed a developed length of more than fee from the heating coil. A. 100
Safety Devices 64. All equipment used for heating water or storing hot water shall be achieved by installing either a pressure relief valve and or by installing a combination pressure temperature relief valve. A. Energy cut-off devices
Pressure and Temperature Relief Valves. 65. Which of the following terms shall have an ASME relief rating to meet the pressure conditions specified on the equipment served? A. Pressure relief valve(s) C. Combination pressure-temperature relief valve B. Energy cut-off devices D. None of the above
Temperature Relief Valves. 66. Temperature relief valves shall be installed so that the temperature sensing element is immersed in the hottest water within the inches of the tank. A. Top 6
Combination Pressure-Temperature Relief Valves. 67. Combination pressure-temperature relief valves shall comply with the applicable requirements as listed in Appendix A, Table A for individual pressure and and shall be installed so that the temperature sensing element is immersed in the hottest water within the top 6 inches of the tank and have a test lever? A. Pressure relief valve(s) C. Individual temperature relief valves B. A check valve or shut-off valve D. None of the above
68. A check valve or shut-off valve shall not be installed between any safety device and the hot water equipment, nor shall there be any in the discharge pipe from the relief valve? A. Energy cut-off devices C. Temperature sensing element
 B. Shut-off valve D. None of the above 69. Energy cut-off devices. Exception: Which of the following are exempted or may be used? A. Instantaneous cut-off devices B. A check valve or shut-off valve D. None of the above
Relief Discharge Outlet. 70. Which of the following shall be indirectly connected to waste? A. Relief valve C. Maximum allowable working pressure B. A relief discharge outlet D. None of the above

 71. Which of the following shall not discharge through a wall into the outside atmosphere of where there is a possibility of freezing? A. Relief valve B. Vented P-trap C. Maximum allowable working pressure D. None of the above
72. Which of the following shall be installed from the relief valve to within 6 inches of the floor of receptor and the end of such line shall not be threaded? A. Relief valve C. Maximum allowable working pressure B. Discharge line D. None of the above
73. The discharge piping shall discharge indirectly into a floor drain, hub drain, service sink sump or a trapped and which is located in the same room as the water heater? A. Relief valve
74. The trap must have to protect against evaporation or shall be fed b means of a priming device designed and installed for that purpose? A. Vented P-trap
Pressure Marking – Hot Water Storage Tank. 75. Which of the following shall be permanently marked in an accessible place with the maximum allowable working pressure? A. Relief valve C. Combination pressure-temperature relief valve B. Hot water storage tanks D. None of the above
Vacuum Relief Valve. 76. Where a hot water storage tank or water heater is located at an elevation above the fixture outlets in or if the storage tank or water heater is bottom fed? A. Thermostatic mixing valves B. Hot water system C. Combination pressure-temperature relief valve D. None of the above
Multiple Temperature Hot Water Systems. 77. Such systems shall be provided with which of the following to properly control the desired temperatures? A. Thermostatic mixing valves B. Hot water system C. Combination pressure-temperature relief valve D. None of the above
Types of Joints 78. Caulked joints. Caulked joints for which of the following shall be firmly packed with oakum or hemp and filled with molten lead? A. Brass or copper C. Cast iron hub-and-spigot pipe B. Lead ring D. None of the above
79. Paint, varnish, or other coatings shall not be permitted on the jointing material until after a plumbing inspector has been given the opportunity to test and approve or disapprove the? A. Joint C. Properly soldered together B. Wiped joints D. None of the above

Threaded/Screwed Joints. 80. All burrs shall be removed; pipe ends shall be reamed or filed to size of the
shall be removed. A. Bore and all chips C. Oakum or hemp and filled with molten lead B. Lead ring D. None of the above
81. Which of the following shall be insoluble in water and non-toxic? A. A proper flaring tool C. Pipe joints compound B. Caulking compound D. None of the above
82. Wiped Joints. Joints in lead pipe or fittings, or between lead pipe fittings and brass or copper pipe ferrules, solder nipples, or traps shall be?A. Full-wiped joints
83. Wiped joints shall have exposed surface on each side of the joint at least and at least as thick as the material being joined. A. 1/2" C. 1" B. 3/4" D. None of the above
84. Wall or floor flange lead-wiped joints shall be made by using a lead ring or which of the following terms placed behind the joints at the wall or floor? A. Brass or copper C. Flange B. Lead ring D. None of the above
 85. Which of the following between lead pipe and cast iron, steel or wrought iron shall be made by means of a caulking ferrule, soldering nipple, or bushing? A. Joints C. Properly soldered together B. Caulking ferrule D. None of the above
Soldered Joints. 86. The joints shall be which of the following terms and made with approved lead free solder? A. Properly fluxed C. Brass or copper B. Lead ring D. None of the above
87. Joints in copper water tubing shall be made with approved cast bronze or wrought copper pressure fittings,? A. A proper flaring tool C. Properly soldered together B. Caulking ferrule D. None of the above
88. All solders or flux containing more than 0.2% lead shall bear a warning label which states that the solder or? A. Caulking ferrule C. Molten lead B. Flux D. None of the above
Flared Joints. 89. Which of the following for plastic pipe and tubing and soft copper water tubing shall be made with approved fittings? A. Approved fitting(s) C. Are prohibited B. Flared joints D. None of the above

Hot-Poured Joints. 90. Hot-poured compound for when poured against a dry s. A. Approved fitting(s) B. Water absorbent		and
Precast Joints.	s inserted in the collar, it shall bind before contacting the back.	ase of
metal, applyingA. Approved fitting(s)	ade by first cleaning the surface to be joined down to the beginned for such joints and for the filler metal. C. Flux approved etal D. None of the above	ase
A. Approved fitting(s)	with a mechanical extraction tool and joined by? C. Flux approved D. None of the above	
Cement Mortar Joints. 94. Except for repairs, ceme A. Approved fitting(s) B. Accepted		
least as thick as the lead bei	C. Flux approved	all be at
96. Bituminized Fiber Pipe J Joints in bituminized fiber pip composition as the pipe? A. Weld B. Approved brazing filler m	c. Tapered type couplings	
	ing shall be made with approved fittings by either solvent w compression fittings, approved insert fittings, metal clamps t material, or? C. Threaded joints D. None of the above	

Joints and Fittings in Plastic Pipe. 98. Which of the following and joints shall be in accordance with the manufacturer's recommendations? A. Potable water piping fittings C. Threaded or flanged joints D. None of the above B. Slip joints 99. Polyethylene (PE) pipe shall be installed only with compression fittings, insert and clamp type fittings or? C. Thermal welded joints and fittings A. Compression fittings B. Solvent welded D. None of the above 100. Which of the following shall be of corrosion resistant material, the inside diameter of any insert fitting shall not be less than the minimum allowable size for water service/distribution piping? A. Clamps C. Ground joint connections B. Slip joints D. None of the above 101. Polyvinyl chloride (PVC) pipe shall be installed with which of the following joints only? A. Adaptor fittings C. Solvent welded or flanged B. Thermal welded joints and fittings D. None of the above 102. The primer and solvent cement used shall be in accordance with the manufacturer's recommendation for? A. Polyvinyl chloride piping C. Ground joint connections D. None of the above B. Fittings and joints 103. Polybutylene (PB) pipe shall be installed only with insert and clamp type fittings, compression type, flanged type, or? A. Compression fittings C. Thermal welded joints and fittings B. Solvent welded D. None of the above Joints in Plastic Drainage. 104. Which of the following in plastic drainage piping or vent piping within a building shall be solvent welded? C. Ground joint connections A. Joints B. Fittings and joints D. None of the above 105. The solvent cement shall be specific for the type of piping material, which of the following terms are acceptable if accessible? A. Compression fittings C. O-ring expansion joints B. Solvent welded D. None of the above

Ground Joint Connections.

106. Which of the following shall not be used in any inaccessible drainage piping?

A. Clamps C. Ground joint connections

B. Slip joints D. None of the above

No-Hub Soil Pipe Joints. 107. Shielded joints for no-hub cast iron soil pipe shall be made with an elastomeric gasket covered by either a stainless steel shield secured by 2 or more stainless steel bands or clamps, or covered by secured with stainless steel nuts and bolts. A. Compression fittings
Compression Type Joints. 108. The pipe shall comply with the specifications contained in ASTM A-74 with regard to which of the following terms dimensions and tolerances? A. Hub and spigot C. Ground joint connections B. Fittings and joints D. None of the above
109. Which of the following for copper water tube or brass tube shall be made with brass ferrules and ground joint connections? A. Compression type joints C. Ground joint connections B. Fittings and joints D. None of the above
Special Joints 10. Copper Tubing to Screwed Pipe Joints. Which of the following from copper tubing to threaded pipe shall be made by the use of a cast bronze or wrought copper adaptor fitting? A. Joints C. Ground joint connections B. Slip joints D. None of the above
Slip Joints. 111. In drainage and water piping, which of the following may be used on the inlet side of the trap or in the trap seal, and on the exposed fixture supply? A. Clamps C. Ground joint connections B. Slip joints D. None of the above
112. Which of the following shall not be used in any inaccessible piping? A. Fittings and joints C. Threaded or flanged joints B. Slip joints D. None of the above
113. Which of the following are permitted, provided they meet the following specifications: they are installed by being pushed onto copper or CPVC? A. Push-on angle stop valves C. Compression type couplings B. Stainless steel bands D. None of the above
 114. Which of the following material shall conform to the type piping on which it is installed? A. The expansion joint C. Grooved type mechanical couplings B. Stainless steel bands D. None of the above
115. Which of the following shall not be used in unexposed water piping except for water services, water meter yokes and stop box connections? A. The expansion joint C. Grooved type mechanical couplings D. None of the above

Grooved Type Mechanical Couplings.

- 116. Which of the following may be used in potable water and roof drain piping, such couplings shall not be used in waste, soil or vent piping?
- A. The expansion joint C. Grooved type mechanical couplings
- B. Compression type couplings D. None of the above

Use of Joints

- 117. Clay Sewer Pipe. Joints in vitrified clay pipe or between such pipe and metal pipe shall be made with a neoprene gasket and?
- A. Flared joints C. Plastic pipe
- B. Stainless steel bands D. None of the above
- 118. Concrete Sewer Pipe. Joints in concrete sewer pipe or between such pipe and metal pipe shall be made with which of the following and stainless steel bands?
- A. Wiped joints C. Neoprene gasket
- B. Unions D. None of the above

Screw Pipe to Cast Iron.

- 119. Which of the following between wrought iron, steel, brass, or copper pipe, and cast iron pipe shall be either caulked or threaded joints?
- A. Proper adaptor fittings C. Joints
- B. Appropriate type adaptor D. None of the above

Lead to Cast Iron, Wrought Iron or Steel.

- 120. Which of the following between lead and cast iron, wrought iron, or steel pipe shall be made by means of wiped joints to a caulking ferrule, soldering nipple, or brushing.
- A. Proper adaptors C. Joints
- B. Unions D. None of the above

Copper Water Tube.

- 121. Which of the following in copper tubing shall be made with cast bronze or wrought copper pressure fittings, properly soldered or brazed, or by means of compression or flared joints?
- A. Proper adaptor fittings C. Joints
- B. Appropriate type adaptor D. None of the above
- 122. Which of the following and compression fittings shall not be installed underground except for water services, water meter yokes and stop box connections?
- A. Flared joints C. Stainless steel bands

B. Unions D. None of the above

Plastic Pipe.

- 123. Joints between plastic pipe and which of the following shall be made only with an appropriate type adaptor?
- A. Flared joints C. Non-plastic material B. Appropriate type adaptor D. None of the above

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Plastic	('amr	∞ IDA	lina
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- 124. There shall be no commingling of which of the following within the same plumbing system except through the use of proper adaptors?
- A. Proper adaptorsB. Stainless steel bandsC. Plastic materialsD. None of the above
- 125. Plastic pipe shall not be installed in which of the following or chase that contains uninsulated hot water?
- A. Proper adaptor fittings C. Any tunnel
- B. Appropriate type adaptor D. None of the above

Unions

- 126. Which of the following may be used in the drainage and venting system when accessibly located above ground?
- A. Proper adaptorsB. UnionsC. Stop box connectionsD. None of the above
- 127. Which of the following shall be installed in a water supply system within 5 feet of regulating equipment, water heaters, water conditioning tanks, water conditioning equipment, pumps?
- A. Proper adaptors C. Stop box connections B. Unions D. None of the above

Drainage System.

- 128. Unions may be used in the trap seal and on the inlet and outlet side of the trap. Unions shall have metal to metal seats except that which of the following terms may have plastic to plastic seats?
- A. Proper adaptorsB. Stainless steel bandsC. Plastic unionsD. None of the above

Water Supply System.

- 129. Unions in the water supply system shall be metal to metal with ground seats, except that plastic to metal unions may utilize durable, non-toxic, impervious?
- A. Proper adaptors C. Wiped joints
- B. Gaskets D. None of the above
- 130. Unions between copper pipe/tubing and dissimilar metals shall either be made with a brass converter fitting or be?
- A. Proper adaptors C. Metal to metal with ground seats
- B. A dielectric type union D. None of the above

Water Closet and Pedestal Urinal

- 131. Fixture connections between _____ and water closets, floor outlet service sinks and pedestal urinals, and earthenware trap standards shall be made by means of brass, copper, hard lead, plastic, or iron flanges; caulked, soldered, screwed or solvent welded to the drainage pipe?
- A. Proper adaptor fittingsB. Floor flangeC. Drainage pipesD. None of the above

132. The connection shall be and the flar	bolted, with a gasket, washer or setting compound, between the nge.		
A. Proper adaptor fittings	C. Earthenware		
B. Appropriate type adaptor	D. None of the above		
is acceptable?	manufactured specifically for plumbing installation		
A. Proper adaptor fittings	C. Drying plumber's putty y D. None of the above		
B. Non-drying plumber's putt	y D. None of the above		
134. Drainage System. WhichA. Fitting or connection	nnections in Drainage Systems ch of the following or connection that obstructs flow shall be used? C. Any plumbing equipment condemned D. None of the above		
 135. In existing buildings only which of the following or device may be connected to the fixture drain and shall not be considered as an obstruction? A. Waste piping B. Impervious surfaces C. Flow control valve D. None of the above 			
D. Importious surfaces	2. None of the agove		
	different sizes of pipes or pipes and fittings are to be connected, easers, which of the following shall be used between the two C. Any plumbing equipment condemned		
	mbing fixtures shall comply with which of the following terms, be aterials, have smooth, impervious surfaces and be free of defects es? C. An obstruction		
defects or which of the following A. Fitting or connection	nt condemned by the Department because of wear, damage, ing shall not be used in a plumbing system? C. Any plumbing equipment condemned D. None of the above		
designed that the standing was closed or remain in the overfle A. Plumbing fixtures	ovided with which of the following the waste piping shall be so ater in the fixtures cannot rise in the overflow when the stopper is low when the fixture is emptied? C. An obstruction D. None of the above		
	hall be connected to any other part of the drainage system? C. Any plumbing equipment condemned D. None of the above		

Installation 141. Cleaning. Which of the following shall be installed in a manner to afford easy access for cleaning? A. Plumbing fixtures B. Durable corrosion resistant materials C. Plumbing fixtures D. None of the above				
Securing Fixtures. 142. Floor outlet or wall hung fixtures shall be secured by screws or bolts of copper, brass, or other equally? A. Plumbing fixtures B. Durable corrosion resistant materials C. Plumbing fixtures D. None of the above				
Wall-Hung Fixtures. 143. Which of the following shall be rigidly supported by a concealed metal supporting member so that no strain is transmitted to the fixture connection? A. Water closet or urinal C. Wall-hung fixtures B. Public toilet rooms D. None of the above				
Setting. 144. Which of the following and traps shall be set level and in a true alignment? A. Slip resistant surface C. Commercial food establishment B. Plumbing fixtures D. None of the above				
Water Supply Connection. 145. Hot and cold, tempered and cold, or tempered water only shall be supplied to that are designed for hot and cold, tempered and cold, or tempered water? A. All mixing faucets C. All plumbing fixtures B. Water closet or urinal D. None of the above				
 146. All mixing faucets and single lever faucets shall have which of the following connected to them with the hot or tempered water supply on the left side of the faucet? A. Slip resistant surface B. Plumbing fixtures C. Both hot or tempered and cold water D. None of the above 				
 147. Which of the following and cold water to a mixing faucet by internal modification of the faucet shall not be allowed? A. All mixing faucets B. Public toilet rooms C. Cross piping of hot or tempered D. None of the above 				
 148. Which of the following shall be installed in an area where there is sufficient room for the fixture to be used for its intended purpose? A. Slip resistant surface B. Plumbing fixtures C. Commercial food establishment D. None of the above 				
Surrounding Materials. 149. Where water closets or urinals are installed for public use, the flooring under the fixture base extending to at least inches from the front and both sides of the water closet or urinal, and extending from the back of the water closet.				

28

C. 12

D. None of the above

A. 18 B. 6

150. Which of the following shall not be an acceptable alternative water temperature control device?			
A. Commercial food establishment B. Plumbing fixtures C. A hot water he D. None of the all			
Prohibited Fixtures 151. Which of the following shall not be installed in public toile A. All mixing faucets C. A vacuum breaker B. Drinking fountains D. None of the above	et rooms?		
 152. Fixed wooden, concrete, cement or tile wash trays or sir utensil washing or hand washing shall not be installed in any f A. Slip resistant surface C. Commercial food establishm B. Plumbing fixtures D. None of the above 	ood service establishment or?		
153. Which of the following are prohibited unless all of the following conditions are met: Bathtub liners/inserts must be manufactured to an exact fit over existing bathtubs or be custom fabricated according to the dimensions of an existing bathtub? A. All mixing faucets C. An existing bathtub B. The bathtub liner/insert D. None of the above			
154. The floor of the liner/insert must have a?A. Slip resistant surface C. Special fiitingB. Plumbing attachment D. None of the above			
 155. Which of the following must be manufactured/fabricated or acrylic/plastic material? A. Water closet or urinal B. Public toilet rooms C. The bathtub liner/insert D. None of the above 	from high-impact plexiglass / ABS		
Water Closets 156. Water closet bowls for public use shall be the elongated A. Anti-siphon type C. An antimicrobial plastic open B. Single flushometer valve D. None of the above			
157. The activating handle, button or mechanism of the flush inches above the overflow rim of the bowl. A. 12 C. 24 B. 10 D. None of the above	valve shall be at least		
158. A water closet flushometer shall be used to flush the fixted A. True B. False	ure.		
Water Closet Tanks. 159. Which of the following shall have a volume sufficient to bowls with which they are connected? A. Vacuum breaker C. Water closet bowls B. Overflow rim of the bowl. D. None of the above	properly flush the water closet		

160. Ball cocks for flush tank provision for?	(S S	hall be of the anti-siphon type, properly installed, and have a
A. Trap refill B. Anti-siphon type		Single flushometer valve None of the above
Flushing Device. 161. The flush valve seat in rim of the water closet bowl, A. Water closet bowl B. Overflow rim of the bowl	with C.	One-piece water closets
	con	e installed so that they are readily accessible for repair. When applete the cycle of operation automatically, opening fully and? C. Closing completely under the service pressure D. None of the above
•	nd r C.	
the discharge side of the flus line shown on the vacuum br	hing eak an c	v shall be provided by an approved vacuum breaker installed on g valve, the bottom of the vacuum breaker, or the critical level er, shall be at least inches above the overflow one water closet shall be served by a single flushometer valve.
		be equipped with seats of smooth non-absorbent material. All or public use shall be an antimicrobial plastic material and an
A. Open front seat B. Self closing seat	_	Closed-front seats None of the above
166. Bidet. An atmospheric v A. Water closet bowl B. Overflow rim of the bowl	C.	uum breaker shall be installed on the discharge side of the? Flushing valve None of the above
shall be at least		breaker, or the critical level line shown on the vacuum breaker, ches above the overflow rim of the bidet.
A 2 C. 12 B. 4 D. None of the	e al	pove
Prohibited Water Closets. 168. Which of the following a inlets are prohibited?	and	water closets with concealed couplings or submerged side
A. Vacuum breakerB. Regulating flush		Hopper-style water closets None of the above

Urinals 169. Automatic Flushing Tank. Flushing tanks shall be used for washout urinals only. Tanks flushing more than one (1) urinal shall be automatic, shall provide a sufficient volume of water to flush all Urinal(s) simultaneously, and shall flush at least times per hour? A 2 C. 12 B. 4 D. None of the above
170. One automatic flushing tank may serve no more than washout urinals. A 2
171. Float Valves. Float valves or ball cocks, if provided for flushing tanks, shall be of the antisiphon type and of sufficient capacity to refill the? A. Urinal(s) V. Tank B. Trap D. None of the above
172. Urinal Flush Valves. No valve shall be used to flush more than one (1) blow-out, siphon-jet or pedestal urinal. One (1) properly sized automatic flush valve may serve more than one (1), but not more than a battery of washout urinals. A 2 C. 4 B. 3 D. None of the above
173. Which of the following are prohibited?A. Trough urinals
Protection of Potable Water 174. Cross Connection (Submergence). Which of the following and water discharge outlets shall not be submerged in any sewage or toxic substance? A. Potable water supply C. Potable water supply piping B. No dead ends D. None of the above
Approval of Devices and Maintenance. 175. Reduced pressure principle (RP), reduced pressure detector (RPDA), double check (DCA) and double check detector (DCDA) backflow prevention assemblies shall be tested and approved by a plumber before initial operation. A. True B. False
176. Records verify testing and maintenance shall be available at the site of the backflow installation.A. True B. False
177. The water distribution system shall be protected against backflow. A. True B. False

178. Where it is not possible to provide maximum fixed air gap, the water outlet shall be

equipped with an accessible backflow prevention device or assembly?

A. True

B. False

Fire Safety Systems.

179. The installation of any fire safety system involving the potable water supply system shall be protected against backflow as follows: backflow protection is not required for fire safety systems constructed as follows: The system shall be looped, with no dead ends, to allow circulation, to prevent the stagnation of water in the line.

A. True B. False

180. A double detector check valve or double check valve backflow preventer assembly shall be installed at the fire safety system's point of connection to the potable water supply when a fire safety system has no chemical additives or non-potable connection.

A. True B. False

181. Which of the following may be located at the point of connection to that section of the system containing such additives when the system's connection to the water supply is protected by a double detector check valve backflow preventer assembly?

A. PVB C. Double check
B. RPZ D. None of the above

182. Non-potable water flows into the fire safety system by?

A. Gravity

C. Emergency connection

B. Fire safety system D. None of the above

183. There is a permanent or emergency connection whereby water can be pumped into the fire safety system from?

A. Gravity C. Any other non-potable source

B. Fire safety system D. None of the above

184. Fire department connections are available that could permit water to be pumped into the fire safety system from which of the following capable of serving the fire safety system?

A. Non-potable sourceB. GravityC. Emergency connectionD. None of the above

Prohibited Connections

185. Sewage Lines. There shall be no direct connection between potable water lines and lines, equipment and vessels containing sewage. Such connections shall be made only through a?

A. Minimum fixed air gapB. Maximium fixed air gapC. Backflow preventerD. None of the above

Chemical or Petroleum Pressure Vessels.

186. There may be a direct connection between any potable water supply and any pressure vessel, i.e., storage tank, tank car, tank truck or trailer or other miscellaneous pressurized tank or cylinder containing or having contained liquefied gaseous petroleum products or other liquefied gaseous chemicals.

A. True B. False

187. If water under pressure is required, it shall be supplied by means of an auxiliary pump taking suction from a tank provided for this purpose only with an over rim supply having the required?

A. Minimum fixed air gap
B. Non-potable source
C. Backflow preventer
D. None of the above

Refrigerant Condensers. 188. A potable water line to a single wall refrigerant condenser shall be provided with a? A. Backflow preventer C. Potable water supply system B. Minimum fixed air gap D. None of the above
189. Only approved pipe or fittings of the water supply system can be drilled or tapped nor shall any band or saddle be used except at the water main in the street. A. True B. False
Devices for the Protection of the Potable Water Supply. 190. Approved air gaps shall be installed with all plumbing fixtures and equipment that may have a submerged potable water supply outlet and that are not protected by a backflow prevention assembly. A. True B. False
191. Backflow preventer devices or assemblies shall not be installed where they would be subject to freezing conditions.A. True B. False
192. All in-line backflow/back siphonage preventer assemblies shall have a full port type valve with a resilient seated shut-off valve on each side of the preventer.A. True B. False
193. A protective strainer shall be located upstream of on all backflow/back siphonage preventers unless the device contains a built-in strainer? A. First check valve C. Vacuum B. Second check valve D. None of the above
Atmospheric Vacuum Breakers. 194. Which of the following shall be installed with the critical level above the flood level rim of the fixture they serve, and on the discharge side of the last control valve of the fixture? A. A protective strainer C. Vacuum breakers B. Air gap D. None of the above
195. Double Check Valve and Reduced Pressure Principle Backflow Preventer Assemblies, no in-line double check valve backflow preventer assembly or reduced pressure principle backflow preventer assembly shall be located more than feet above a floor, or be installed where it is subject to freezing or flooding conditions. A. 2 C. 1 B. 5 D. None of the above
196. After installation, each DCV and RPZ shall be field tested in-line in accordance with the manufacturer's instructions by a cross-connection control device inspector before initial operation. A. True B. False
197. A dual check backflow preventer atmospheric vent assembly shall not be installed where i is subject to freezing or flooding conditions. A. True B. False

198.	shall have a properly sized thermal expansion tank located in
the cold water supply as near to	the water heater as possible and with no shut-off valve or other
device between the heater and	·
A. Closed water systems	C. Opened water systems
B. Thermal expansion tank	D. None of the above
199. Exception: In existing buil relief valve may be substituted i	dings with a closed water system, a properly sized pressure n place of a?
A. Closed water systems	C. Opened water systems
B. Thermal expansion tank	D. None of the above
Special Applications and In	stallations
200. Which of the following sha	Il be installed on the outlet side of the control valve?

C. An atmospheric vacuum breaker A. RPZ

B. DCV D. None of the above

When Finished with Your Assignment...

REQUIRED DOCUMENTS

Please scan the Registration Page, Answer Key, Proctoring report, Survey and Driver's License and email these documents to info@TLCH2O.com.

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