

Instructions:

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1. Print these pages.
2. Circle the correct answers on the answer sheet.
3. Page down to the last page for the verification forms and mailing instructions.
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**Course: 6916 "INTERNET" TESTPEX45**

**This course is valid for these credentials:**

<b>Credential Description</b>	<b>Cred Code</b>	<b>Credit Hours</b>
Commercial Plumbing Inspector	CPI	4.0
Journeyman Plumber	PJ	4.0
Journeyman Plumber-Restricted Appliance	PJRA	4.0
Master Plumber	PM	4.0
Master Plumber-Restricted Appliance	PMRA	4.0
UDC-Plumbing Inspector	UPI	4.0

1. The cross-link technology used in Aquapex tubing is similar to the design and characteristics of a chain link fence.
  - a. true
  - b. false
2. When Aquapex tubing is integrated into the household cold water system and is also used for fire protection a \_\_\_\_\_ is allowed by code to install the tubing in a new single family home.
  - a. licensed sprinkler contractor
  - b. licensed master plumber
  - c. homeowner
  - d. all of the above
3. Aquapex tubing was the first tubing to receive standard grade pressure ratings of \_\_\_\_\_ psi at \_\_\_\_\_ ° F.
  - a. 70, 190
  - b. 80, 200
  - c. 90, 200
  - d. 100, 200
4. ProPex fittings must be cleaned with the manufacturer's approved primer.
  - a. true
  - b. false
5. Aquapex tubing is remarkably freeze \_\_\_\_\_.
  - a. proof
  - b. resistant
  - c. both a & b
  - d. neither a or b

6. Aquapex tubing has been tested under high temperatures and high pressures for \_\_\_\_\_ years.
- 20
  - 23
  - 24
  - 25
7. Aquapex tubing is resistant to harsh chemicals, aggressive water and soil conditions.
- true
  - false
8. If the Aquapex tubing becomes kinked a heat gun can be used to repair it and can be heated up to a temperature that turns the tubing transparent. Once cooled it returns to its original strength.
- true
  - false
9. Pull out tests stretched the Aquapex tubing to \_\_\_\_\_ pounds of pressure and the ProPex connections didn't burst.
- 200
  - 300
  - 400
  - 500
10. The ProPex expansion tool expands the following tubing sizes: 1/2", 3/4", 1", 1 1/2".
- true
  - false
11. The ProPex expansion tool requires calibration.
- true
  - false
12. ProPex fittings are approved to be used with other manufacturer's pex tubing.
- true
  - false
13. A Pex ring should extend beyond the square cut edge of the tubing by \_\_\_\_\_".
- 1/16
  - 1/32
  - 1/4
  - 3/8
14. When expanding the tubing and before the final expansion is made the tubing must be removed from the tool and rotated \_\_\_\_ turn.
- 1/8
  - 1/4
  - 1/2
  - 3/8
15. After expanding the tubing and ring, then insert the fitting into the tubing until it reaches the \_\_\_\_\_ on the fitting.

- a. hub
- b. spigot
- c. shoulder
- d. a, b & c

16. 3/8" pex rings must be expanded once from each side before assembling on the tubing.

- a. true
- b. false

17. When expanding 3/8" Aquapex tubing you must rotate the tubing \_\_\_ turn after each expansion.

- a. 1/16
- b. 1/8
- c. 1/4
- d. 1/2

18. It is allowable to cut the Aquapex tubing prior to connection with up to a 25° offset.

- a. true
- b. false

19. Using the expansion tool and expanding 3/8" tubing, what is the maximum number of expansions allowed by the manufacturer?

- a. 3
- b. 4
- c. 5
- d. 6

20. Using the expansion tool and expanding 3/4" tubing, what is the maximum number of expansions allowed by the manufacturer?

- a. 5
- b. 4
- c. 9
- d. 14

21. Using the expansion tool and expanding 1/2" tubing, what is the minimum number of expansions allowed by the manufacturer?

- a. 2
- b. 3
- c. 4
- d. 5

22. Using the expansion tool and expanding 1" tubing, what is the minimum number of expansions allowed by the manufacturer?

- a. 8
- b. 12
- c. 14
- d. 9

23. The number of expansions to get the tubing to accept the fitting up to the proper insertion point depends on technique and temperature. Allowable connections shouldn't exceed the expansion table.

- a. true
- b. false

24. ProPex fittings are considered manufactured connections and are allowed to be concealed in walls spaces.

- a. true
- b. false

25. A good connection is considered when the Pex tubing is snug against the \_\_\_\_\_ of the fitting.

- a. hub
- b. spigot
- c. shoulder
- d. a, b & c

26. It is acceptable to cut the Pex ring off, heat the tubing with a heat gun until the tubing is transparent, separate the tubing from the fitting, cut 2" off the tubing, and reinstall the fitting to the manufacture's specifications.

- a. true
- b. false

27. Wirsbo's manifold can be installed in the vertical or horizontal position.

- a. true
- b. false

28. When making the transition from copper to Pex tubing it is acceptable by the manufacturer to sweat the joints adjacent to the Pex fitting while the Pex tubing is connected.

- a. true
- b. false

29. When making the transition from copper to pex tubing it is acceptable by the manufacturer to thread the joints adjacent to the Pex fitting while the pex tubing is connected.

- a. true
- b. false

30. When repairing fittings off site it would be acceptable to burn the joints apart.

- a. true
- b. false

31. When installing the Pex tubing in the cold weather it is recommended to keep the fittings and rings warm. Cold weather according to the manufacturer is a temperature below \_\_\_\_ ° F.

- a. 30
- b. 35
- c. 32
- d. 40

32. When expanding Pex tubing in the cold weather fewer expansions are required because the tubing contracts more slowly. In this case, only expand the tubing until it reaches the stop on the expansion tool.

- a. true

b. false

33. When expanding Pex tubing in the cold weather it is acceptable to hold the tubing in the expanded position for an extended length of time due to the weather conditions.

- a. true
- b. false

34. When installing Pex tubing in cold weather conditions wait \_\_\_ minutes after the installation before pressure testing.

- a. 5
- b. 10
- c. 20
- d. 30

35. When installing Pex tubing in cold weather conditions and a leak is detected during the pressure test, it would be acceptable to warm the connection for up to \_\_\_ seconds with a heat gun to re-seal the connection.

- a. 5
- b. 15
- c. 20
- d. 30

36. When re-sealing the Pex connection as mentioned in question #34 it is acceptable to warm the connection until the tubing becomes transparent.

- a. true
- b. false

37. The name PEX is associated with?

- a. polyethylene
- b. cross-link
- c. a & b
- d. neither a or b

38. Over expanding the tubing will result in performance difficulty.

- a. true
- b. false

39. When expanding the tubing and before the final expansion is made the tubing must be removed from the tool and rotated a partial turn. Why is this necessary?

- a. to prevent excessive expansion
- b. to prevent ridges from being formed on the inner wall of the tubing
- c. both a & b
- d. neither a or b

40. When the expansion tool doesn't expand the tubing enough to insert the fittings the manufacturer recommends that:

- a. The tool must be sent in to manufacturer
- b. The tool must be replaced
- c. both a & b
- d. neither a or b

41. Aquapex tubing sizes range from:

- a. 1/2" to 1"
- b. 3/8" to 1"
- c. 3/8 to 1 1/2"
- d. 1/2" to 1 1/2"

42. Angle Method and cross-link technology are associated with the two most important properties of Aquapex. These two properties would be thermo memory and shape memory.

- a. true
- b. false

43. Hammer arrestors are not required if Aquapex tubing is used.

- a. true
- b. false

44. Why is Aquapex tubing considered clean, healthy and safe?

- a. no solder
- b. no flux
- c. no solvents
- d. a, b, & c

45. One outstanding feature about Aquapex tubing is a low thermal transfer. This would attribute to:

- a. Quiet-no water hammer
- b. Highly freeze resistant
- c. No sweating pipes
- d. Resistant to aggressive soils and water

**Testpex45 6916 Answer Sheet**

<u>1</u>	a b c d	<u>16</u>	a b c d	<u>31</u>	a b c d
<u>2</u>	a b c d	<u>17</u>	a b c d	<u>32</u>	a b c d
<u>3</u>	a b c d	<u>18</u>	a b c d	<u>33</u>	a b c d
<u>4</u>	a b c d	<u>19</u>	a b c d	<u>34</u>	a b c d
<u>5</u>	a b c d	<u>20</u>	a b c d	<u>35</u>	a b c d
<u>6</u>	a b c d	<u>21</u>	a b c d	<u>36</u>	a b c d
<u>7</u>	a b c d	<u>22</u>	a b c d	<u>37</u>	a b c d
<u>8</u>	a b c d	<u>23</u>	a b c d	<u>38</u>	a b c d
<u>9</u>	a b c d	<u>24</u>	a b c d	<u>39</u>	a b c d
<u>10</u>	a b c d	<u>25</u>	a b c d	<u>40</u>	a b c d
<u>11</u>	a b c d	<u>26</u>	a b c d	<u>41</u>	a b c d
<u>12</u>	a b c d	<u>27</u>	a b c d	<u>42</u>	a b c d
<u>13</u>	a b c d	<u>28</u>	a b c d	<u>43</u>	a b c d
<u>14</u>	a b c d	<u>29</u>	a b c d	<u>44</u>	a b c d
<u>15</u>	a b c d	<u>30</u>	a b c d	<u>45</u>	a b c d

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Instructor Signature \_\_\_\_\_