

## Quiz 28

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**1. Before starting up a new boiler or one that has been out of service the following must be ensured the:**

- a. manufacturer's recommendations are read
- b. boiler has a valid inspection certificate
- c. fuel is shut off
- d. boiler control is in the OFF position
- e. boiler is cold

**2. During the warm-up period of a heating boiler the main burner goes out. The operator should:**

- a. shut down the boiler immediately, purge the boiler, and restart it
- b. shut down the boiler, close the fuel valves, and determine the cause of the problem
- c. try to re-light the burner immediately
- d. check the altitude gage to ensure there is enough water in the system
- e. clean the burner, purge the boiler, and restart it

**3. If there is any question as to the accuracy indicated by a gage glass and the true level cannot be determined:**

- a. the boilers should be fired harder to raise the pressure in the glass, thus forcing out any obstruction in the connections
- b. the boiler should be removed from service and all water level indicating attachments checked
- c. more chemical should be added to the boiler to dissolve solid obstructions
- d. the boiler should be operated at a slightly lower pressure to be safe
- e. the boiler should be shutdown, drained, and inspected

**4. Thermal shock to boilers can be reduced by:**

- a. warming up boilers slowly
- b. keeping the boiler free of scale build-up
- c. covering the tube sheets with refractory
- d. not allowing full flow of cold water into a warm hot water boiler
- e. all of the above

**5. In a hot water heating system, the water temperature should never exceed:**

- a. 100°C
- b. 121°C
- c. 80°C
- d. 60°C
- e. 110°C

**Quiz 28 Answers:**

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**1 = b, 2 = a, 3 = b, 4 = a, 5 = b**