

Quiz 04

1. A boiler furnace explosion:

- a. can be the result of too much scale on boiler tubes
- b. is more disastrous than a pressure or waterside explosion
- c. may be the result of oil in the water causing a foaming condition
- d. may result from admission of main fuel before a pilot flame is established
- e. could be caused by poor water circulation

2. A boiler pressure or waterside explosion:

- a. could be the result of water in the fuel oil
- b. could be the result of inadequate ignition
- c. may be caused by a low water condition
- d. could result from improper sootblowing procedures
- e. could be the result of broken refractory

3. A firetube boiler furnace explosion:

- a. can be the result of too much scale on boiler tubes
- b. is more disastrous than a pressure or waterside explosion
- c. may be the result of oil in the water causing a foaming condition
- d. could result from a flame scanner not working properly
- e. could be caused by poor water circulation

4. A furnace explosion may be caused by:

- 1. insufficient purging before lighting off
 - 2. failure of main fuel valve to close when main burner flame is lost
 - 3. accumulating of scale on the boiler surfaces
 - 4. admission of fuel to the main burner before the pilot is established
- a. 1, 2, 3, 4
 - b. 1, 2, 4
 - c. 2, 3, 4
 - d. 1, 3, 4
 - e. 3, 4

5. A high water level in a boiler:

- a. will not be made worse by dropping boiler pressure or allowing "swell" to occur
- b. should cause a high water level shutdown switch to stop the fire
- c. is usually the result of a boiler feed-pump malfunction
- d. will necessitate an immediate shutdown, cool down, and inspection
- e. is usually the result of a level control malfunction

6. A natural gas fired power boiler flame should be:

- a. very slow, long, and mostly yellow or orange
- b. fairly rapid, mostly blue, and some orange
- c. very rapid, short, very audible, and have no orange

- d. very white and intense, requiring colored glass for viewing
- e. bright enough to require colored glass for viewing

Quiz 04 Answers:

Answers: 1 = d, 2 = c, 3 = d, 4 = b, 5 = e, 6 = b