

# ES15C - Pre-Instructional Survey

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. What is the primary measurement for the control of a boiler?
  - a. Fuel flow
  - b. Air flow
  - c. Header pressure
  - d. Drum pressure
  - e. Load Demand
2. What does the term ID Fan mean?
3. What does the term FD Fan mean?
4. Water tube boilers have two drums. What are the names of the two drums?
5. What is a common name for the combustion chamber of a boiler?
6. The use of feedwater heater and air heater improves boiler efficiency.  
True or False
7. What do the symbols K and P mean relative to process control?
8. What is a primary document that defines boiler instrumentation?
9. What are the measurements for three-element boiler water control?

10. Which fuel has the greatest BTU value?

- a. Coal
- b. Gas
- c. Oil

11. Feedforward, cascade, and ratio control are all used in the control of boilers.

True or False

12. What does 2003 mean?

13. When the term shall is used in a standard, it means that “this as a requirement.”

True or False

# ES15C - Pre-Instructional Survey Answer Sheet

1. c or e
2. Induced draft
3. Forced draft
4. Upper drum or steam drum – mud drum or lower drum
5. Furnace
6. True
7. Gain or proportional band
8. P&ID (Piping & Instrument Diagram)
9. Drum level, Feedwater flow, Steam flow
10. Gas
11. True
12. 2 out of 3
13. True