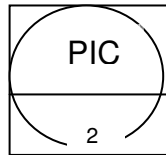


# FG15C – Pre-Instructional Survey

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

1. P&ID is an abbreviation for:
  - a. Proportional and Integral Diagram
  - b. Proper and Identified Drawing
  - c. Planning and Implementation Diagram
  - d. Piping and Instrumentation Drawing



IC2

2. The symbol describes:

- a. Part of a distributed control system
  - b. A computer controlled process loop
  - c. Part of an integrated circuit board
  - d. A pneumatic pressure controller
3. Two pressure gauges or two adjustable lines form an instrument loop.
    - a. True
    - b. False
    - c. Not enough information
  4. A globe-type control valve:
    - a. Has a special inner valve
    - b. Is always made of 316 stainless steel
    - c. Can be operated by a spring and diaphragm actuator
    - d. Is never welded into the process piping
  5. A logic diagram defines:
    - a. On-off or sequential control
    - b. Continuous process control
    - c. How a typical process operator thinks
    - d. Typical continuous process set points for process controllers

6. When information is transferred pneumatically, the range used is:
- a. 0-15 psi
  - b. 3-15 psi
  - c. 4-20 psi
  - d. 4-15 psi
7. ISA Standards and Recommended Practices:
- a. Are copyrighted and cannot be duplicated
  - b. Are law in most states
  - c. Are followed in many parts of the world
  - d. Both A & C
8. A loop diagram is:
- a. A map of the elevated rail system of Chicago
  - b. A diagram that shows all parts of an instrument loop
  - c. Used only for pneumatic instrumentation
  - d. None of the above
9. Give an example of an automatic control system not in a process plant:
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10. "Tuning a loop" means:
- a. To set the frequency of the transmitted signal
  - b. Setting the amount of proportional band in a proportional only controller
  - c. Matching the impedance of the transmitter and controller
  - d. None of the above

## FG15C - Pre-Instructional Survey Answers

1. D
2. A
3. B
4. C
5. A
6. B
7. D
8. B
9. Home heating System  
Automobile speed control  
Home hot water heater
10. B