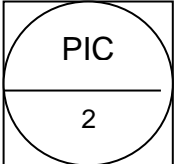


FG15E – Pre-Instructional Survey

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

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 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:
- 0-15 psi
 - 3-15 psi
 - 4-20 psi
 - 4-15 psi
7. ISA Standards and Recommended Practices:
- Are copyrighted and cannot be duplicated
 - Are law in most states
 - Are followed in many parts of the world
 - Both A & C
8. A loop diagram is:
- A map of the elevated rail system of Chicago
 - A diagram that shows all parts of an instrument loop
 - Used only for pneumatic instrumentation
 - 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:
- To set the frequency of the transmitted signal
 - Setting the amount of proportional band in a proportional only controller
 - Matching the impedance of the transmitter and controller
 - None of the above
11. Safety shut-down software can be developed using:
- Interlock logic description only
 - Sequence logic description only
 - Instrument Index
12. The instrument index (list) is derived from:
- Software Functional description
 - P&ID
 - All of the above