FG15 - Pre-Instructional Survey

Name: _____________________________________ Date: ___________________

1. The document most often referred to by all disciplines to define a process control system is:

_________________________________________________________________________
_________________________________________________________________________

2. On a project document, the following symbol appears. What does it mean?

_________________________________________________________________________
_________________________________________________________________________

3. An instrument loop consists of the following parts: ____________________________

_________________________________________________________________________
_________________________________________________________________________

4. Most final control elements in continuous process plants are: _________________

_________________________________________________________________________
_________________________________________________________________________

5. A logic diagram may be used to describe: ________________________________

_________________________________________________________________________
_________________________________________________________________________

6. A loop diagram can be used by maintenance personnel for: __________________

_________________________________________________________________________
_________________________________________________________________________

7. A PID controller is: _______________________________________________________________________

_________________________________________________________________________
_________________________________________________________________________

8. The most common signal for an electronic process transmitter is:

_________________________________________________________________________
_________________________________________________________________________
9. Methods of reducing the possibility of danger from flammable materials are contained in:

_________________________________________________________________________________

10. Give an example of an automatic control system not in a process plant: __________

_________________________________________________________________________________

11. Safety shut-down software can be developed using:
    a) Interlock logic description only
    b) Sequence logic description only
    c) Instrument Index

12. The instrument index (list) is derived from:
    a) Software Functional description
    b) P&ID
    c) All of the above
FG15 - Pre-Instructional Survey Answer Sheet

1. P&ID or Flow Diagram or Engineering Flow Diagram.

2. An indicating temperature controller located on panel #IP-1.

3. A process sensor (an element, a transmitter, or a switch); transmitted signal(s) usually pneumatic, electronic or electric; a controller or receiver (an alarm, indicator, recorder, controller); and final control element.

4. Pneumatic control valves

5. The on-off elements of a continuous process.

6. Troubleshooting, repair, revision.


8. 4-20 mA DC


10. Automobile Speed Control
    Home Heating System
    Home Hot Water System

11. a) Interlock logic description only

12. b) P&ID