

# IC39C Pre-Instructional Survey

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

1. The definition of ALARM includes which of the following elements?
  - a. Alarms are a higher priority than alerts.
  - b. Management authorization is required.
  - c. Operator action is required.
  - d. Rationalization is required.
  
2. The development of an alarm philosophy is always the first step in implementing an alarm management program. (Circle one)  
  
True False
  
3. Which of the following is NOT a common method to identify alarms?
  - a. P&ID reviews.
  - b. Alarm system audits.
  - c. Process hazard reviews.
  - d. Environmental permits.
  
4. Which of the following are documented during alarm rationalization?
  - a. Alarm consequence.
  - b. Operator action.
  - c. Alarm priority.
  - d. All of the above.
  
5. Which of the following is addressed in alarm design?
  - a. Operator action.
  - b. Alarm priority.
  - c. Alarm deadband.
  - d. Alarm classification.

6. Which of the following is an advanced alarming technique?
  - a. Debounce timer (Off delay).
  - b. Alarm deadband.
  - c. First-out logic.
  - d. Alarm latching.
  
7. Which of the following pieces of information is NOT necessary to provide to the operator?
  - a. Operator action.
  - b. Alarm consequence.
  - c. Alarm class.
  - d. Alarm setpoint.
  
8. Which of the following is not an alarm system performance metric?
  - a. Average alarm rate.
  - b. Frequent alarm list.
  - c. Percent time in flood.
  - d. Number of stale alarms.
  
9. Which of the following changes to the alarm system do NOT require review and approval?
  - a. Alarm setpoint changes.
  - b. Alarm priority changes.
  - c. Advanced alarming changes.
  - d. Alarm shelving.
  
10. Which of the following is often not included in an alarm system audit?
  - a. Alarm system requirement specification.
  - b. Out-of-service alarms.
  - c. Alarm system performance metrics.
  - d. Operator interviews.

11. What is a recommended number of alarm priorities?
- 1.
  - 3.
  - 5.
  - 7.
12. Which of the following statements about color for alarm indication is true?
- Color should not be used to indicate alarms.
  - Color should indicate alarm priority.
  - Color should indicate alarm class.
  - Color should indicate alarms type.
13. Which of the following advanced alarm techniques is most appropriate to suppress alarms on a compressor following a trip?
- Model based alarming.
  - State based alarming.
  - First-out alarming.
  - Alarm flood suppression.
14. Which of the following alarm problems are most likely to be addressed by maintenance?
- Stale alarms.
  - Alarm floods.
  - Redundant alarms.
  - Alarm with the wrong priority.
15. Which of the following is a common first step in an alarm management program?
- By rationalizing all alarms.
  - By prioritizing all alarms.
  - By increasing all alarm deadbands.
  - By developing an alarm philosophy.

## IC39C Pre-Instructional Survey Answer Sheet

1. c
2. False
3. b
4. d
5. c
6. c
7. c
8. b
9. d
10. a
11. b
12. b
13. c
14. a
15. d