# EBT Proficiency and BAT Test for the:

ANSWER KEY

**Alco-Sensor IV / RBT IV**

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

*Company:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Instructor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Class Location :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

Print the letter that corresponds to the **BEST** answer.

1.  **B** *Altitude and barometric pressure will affect the results of:*

1. A human breath sample
2. An accuracy check performed with a dry gas standard
3. Both a and b

2. **D**  *A breath sample* ***will not*** *be taken automatically by the Alco-Sensor IV if:*

1. “NoGo” is displayed
2. “Man” is displayed
3. the employee provides an insufficient sample
4. all of the above

3. **A**  *Pressing the SET button on the Alco-Sensor IV will:*

1. close the sampling valve of the device
2. allow the BAT to obtain a printout of the test performed
3. save the current test information to the Alco-Sensor IV
4. take a manual breath sample

4. **A** *The BAT should remove the mouthpiece by:*

1. pressing the red eject button
2. pressing the SET button
3. pulling out the mouthpiece by hand

5. **A**  *A True Cal device is used to:*

1. sense changes in the absolute barometric pressure, which is needed to calculate the value of a dry gas standard when performing a calibration check or calibration
2. automatically calibrate the Alco-Sensor IV at a pre-programmed time
3. detect temperature, barometric pressure and wind velocity

6. **B** *If the Alco-Sensor IV is used in close proximity to a computer, cellular phone or walkie-talkie, the instrument may show the following display:*

1. “BAT”
2. “RFI”
3. “NoGo”

7. **D** *When conducting an accuracy check using the Alco-Sensor IV, the result of the check should be noted in a Calibration Logbook because:*

1. it is a DOT record keeping requirement
2. once the mouthpiece has been ejected from the Alco-Sensor IV, the three digit result will no longer be displayed.
3. The RBT IV printout will not include the expected value of the standard
4. all of the above

8. **B**  *The Intoximeters Quality Assurance Plan (QAP) requires or recommends:*

1. The device be taken our of service and sent to a factory technician every twelve months
2. an accuracy check be performed every 31 days
3. a calibration be performed as soon after a positive confirmation test is practical
4. all of the above

9**. D** *To prevent damage to the fuel cell:*

1. do not repeatedly introduce mouth sprays or mouthwashes
2. do not store the Alco-Sensor IV under extreme temperature conditions
3. do not introduce raw cigarette smoke
4. all of the above

10.  **A** *An air blank reading of .000 demonstrates that:*

1. no residual alcohol has been detected by the Alco-Sensor IV
2. the Alco-Sensor IV has been properly calibrated
3. the Subject has not been drinking

11. **C** *The Alco-Sensor IV uses which methodology for determining the presence of alcohol:*

1. Infrared Spectroscopy
2. Gas Chromatography
3. Electrochemical Oxidation / Fuel Cell

12. **B**  *When performing an accuracy check using a standard with an expected value of .036, which result would require the Alco-Sensor IV to be taken out of service and e re-calibrated:*

1. .038
2. .030
3. .040

13.  **A** *The expected value of the approved dry gas at 7,000 feet will be:*

1. lower than .038
2. higher than .038
3. .038

14.  **C** *A breath sample will be taken automatically by the Alco Sensor IV after it has detected:*

1. an adequate volume of breath
2. a drop off in breath flow
3. both a and b

15. **A**   *If an accuracy check following a positive confirmation test fails, the BAT should:*

1. Take the instrument out of service until it is calibrated by a factory authorized calibration technician.
2. Continue to use the instrument, and ensure it is calibrated within 5 business days.
3. Run another accuracy check to see if you can get it to pass.
4. Immediately re-test the subject.

16. **C**  *A BAT may perform calibrations on the Alco-Sensor IV if:*

1. they are proficient in performing subject tests
2. they are proficient in performing calibration checks
3. they have been certified as a Factory Authorized Calibration Technician

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Read each question carefully, then choose T (True) or F (False).

17. \_\_**F**\_\_The Alco-Sensor IV should be re-calibrated each time it is moved to a different altitude.

18. \_**T**\_\_\_The BAT may obtain a copy of the last test in the RBT IV memory by depressing the “Last Test” button.

19. \_\_**F**\_\_ The display “TMP<” indicates that the Alco-Sensor is temporarily low on battery power.

20. \_\_**F**\_\_If an accuracy check fails, the BAT may perform two more accuracy check to determine if the Alco-Sensor IV is in calibration.

21. \_\_**T**\_\_ Calibration check, accuracy check, and external calibration check all refer to the same procedure.

22. \_\_**F**\_\_In order to perform a screening test on the Alco-Sensor IV, the temperature of the device must be between 20 – 60 Celsius.

23. \_\_**T**\_\_ A Screening test may be performed using the Alco-Sensor IV without the RBT IV.

24. \_\_**F**\_\_When performing a Confirmation Test, the BAT should proceed with the test when the message “TEST” is displayed on the AS IV.

25. \_\_**F**\_\_A Subject with a breath alcohol result of .085 g/210L at sea level, will produce a result that is higher when the same amount of alcohol is consumed at a higher altitude.

26. \_\_**F**\_\_After the result of a Subject test is displayed, the BAT may eject the mouthpiece then depress the RECALL button to observe the test result again.

27.\_\_**T**\_\_If the SET button is pressed while the Alco-Sensor IV is analyzing a sample, the test will “Void”.

28.\_\_**F**\_\_Upon a Subject’s third insufficient sample, the Alco-Sensor IV will display “Man”.

29.\_\_**T**\_\_When performing an accuracy check, it is very important for the technician to press the Manual button on the Alco-Sensor IV while the gas is still flowing into the device.

30.\_\_**T**\_\_After a positive test, the fuel cell needs sufficient time to “clean up” before testing resumes.