ALCOHOL AND DRUG TESTING

Intoxilyzer 8000 Operator’s Manual
(OH-5)
Revised 3/1/2017
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Alcohol in the Human Body

- Ethanol (ethyl alcohol) is the specific alcohol that is present in alcoholic beverages.
- Ethyl alcohol is less toxic than other alcohols, but all alcohols are toxic and if a sufficient quantity is consumed, death will result.
- Characteristics of ethanol:
  - Colorless
  - Mixes readily with water
  - Slight odor
  - Burning taste

For the remainder of this text, the term alcohol will denote ethyl alcohol.

- **Acetone**, found in uncontrolled diabetics / diabetic crisis, closely matches the signs and symptoms of alcohol. The instrument will detect acetone and display as an Interferent Detect. The instrument will abort the test, high-low tone, display Interferent Detect, print Interferent Detect.

How Alcohol is Measured

Dosage Forms of Alcohol

- A standard drink contains 12oz beer, 4oz wine, or 1oz hard liquor. A standard drink contains approximately one-half ounce of pure ethanol.

  12oz beer x 4% alcohol = .48oz ethanol

  4oz wine x 12% alcohol = .48oz ethanol

  1oz liquor x 50% alcohol = .50oz ethanol
Absorption of Alcohol

- Alcohol can enter the body in several different ways: injection, inhalation, skin absorption, and ingestion (drinking).
- Absorption through the skin and absorption through inhalation result in very little alcohol being introduced into the body. It is virtually impossible to have any significant concentration build up in the body in these ways.
- Alcohol is absorbed unchanged, not digested.
- Only a small amount of alcohol will be absorbed through the lining of the mouth. All traces of alcohol will be gone from the mouth within 15 to 20 minutes after the last drink, thus the 20 minute observation period before any breath test in Ohio.
- The majority of alcohol is absorbed by the stomach and small intestine.
- Food in the stomach slows the absorption of alcohol.
- **Stomach content is the single greatest factor in the absorption rate of alcohol.**
Distribution of Alcohol

- Alcohol is absorbed into the blood stream from the small intestine and stomach. It passes through the liver and travels to the right side of the heart. The heart pumps it to the lungs and it returns to the left side of the heart. The heart then distributes the alcohol throughout the body.
- Alcohol is distributed in proportion to body water because alcohol is freely soluble in water.
- The greater the water content of a tissue, the greater its alcohol content will be in relation to other tissues.
  - Body fat = very low alcohol concentration
  - Blood/muscle = high alcohol concentration

Elimination of Alcohol

- **Ethanol is removed from the body through metabolism in the liver**, excretion, and evaporation. Metabolism accounts for virtually all of the elimination of alcohol. Approximately 90% of the alcohol is removed by metabolism.
- **The elimination rate, used to be conservative, is 0.015 g/210L per hour.**
- The only way to sober up is to allow the body to metabolize the alcohol. Exercise, caffeine or other stimulants will not speed up the process. While food in the stomach before drinking will slow the absorption of alcohol, eating after drinking will not affect the metabolism of alcohol.
Henry’s Law

- Henry’s Law is the fundamental law supporting breath testing.

- Henry’s Law states:

  The concentration of a volatile substance in the air above a liquid is proportional to the concentration of the volatile substance in the liquid.

- As applied to breath testing, this means:

  The concentration of alcohol in the breath is proportional to the concentration of alcohol in the blood.

- This proportion for blood to breath is 2100:1, which means that for every 2100 molecules of alcohol in the blood, there will be 1 molecule of alcohol in the breath.
The exchange of alcohol molecules between the blood and the breath takes place in the alveoli, the air sacs deep within the lungs. **When the subject has been requested to provide a breath sample, they are instructed to give a sample of deep lung air, which will closely match the blood to breath ratio of the alveolar air.**

**Breath test:**
- Deep lung air
- Most closely approximates blood test result
- Easy to obtain with instantaneous results
- **Breath units: grams alcohol per 210 L of breath (g/210 L)**
- Blood to breath ratio: 2100:1
- Blood units: grams alcohol per 100 ml of blood (g/100 ml)
- Urine: grams alcohol per 100 ml of urine (g/100 ml)
Impairment

- **Alcohol acts as a central nervous system (CNS) depressant**, which means that it slows down the responses of the CNS.
- Alcohol has a variety of effects, including reasoning and judgment (cognitive), physical senses (sensory), and motor. The final effect of impairment is death.

<table>
<thead>
<tr>
<th>Alcohol Content</th>
<th>Effect Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.60</td>
<td>Death occurs</td>
</tr>
<tr>
<td>.50+</td>
<td>Comatose</td>
</tr>
<tr>
<td>.40</td>
<td>Fatal dose in some persons</td>
</tr>
<tr>
<td>.27-.40</td>
<td>Unable to stand or walk, vomiting, lapses into sleep</td>
</tr>
<tr>
<td>.18-.30</td>
<td>Mental confusion, slurred speech, staggering</td>
</tr>
<tr>
<td>.18</td>
<td>Crash involvement increased dramatically (50+ times average)</td>
</tr>
<tr>
<td>.08-.10</td>
<td>Decreasing muscle control and hand coordination</td>
</tr>
<tr>
<td>.08</td>
<td>Illegal Per Se, all drivers impaired (National Safety Council)</td>
</tr>
<tr>
<td>.06</td>
<td>Vision focus recovery increases from .1 to .2 seconds</td>
</tr>
<tr>
<td>.05-.06</td>
<td>Fine motor skills impaired (gaze nystagmus may be noticed)</td>
</tr>
<tr>
<td>.05</td>
<td>AMA Recommendation for per se level</td>
</tr>
<tr>
<td>.04</td>
<td>DOT limit for CDL</td>
</tr>
<tr>
<td>.04</td>
<td>Increased crash involvement</td>
</tr>
<tr>
<td>.04</td>
<td>Decreased night vision, glare recovery, depth perception</td>
</tr>
<tr>
<td>.03-.10</td>
<td>More sociable, loss of attention, judgment &amp; intellect impaired</td>
</tr>
<tr>
<td>.025</td>
<td>Alcohol content of 150 pound man with one standard drink</td>
</tr>
<tr>
<td>.02</td>
<td>Impairment begins, DOT screening level</td>
</tr>
<tr>
<td>.01-.05</td>
<td>Drinker appears normal</td>
</tr>
</tbody>
</table>
OHIO REVISED CODE

3701.143 Analyzing blood, urine, breath or other bodily substance to determine alcohol or drug of abuse content.

For purposes of sections 1547.11, 4511.19, and 4511.194 of the Revised Code, the director of health shall determine, or cause to be determined, techniques or methods for chemically analyzing a person's whole blood, blood serum or plasma, urine, breath, or other bodily substance in order to ascertain the amount of alcohol, a drug of abuse, controlled substance, metabolite of a controlled substance, or combination of them in the person's whole blood, blood serum or plasma, urine, breath, or other bodily substance. The director shall approve satisfactory techniques or methods, ascertain the qualifications of individuals to conduct such analyses, and issue permits to qualified persons authorizing them to perform such analyses. Such permits shall be subject to termination or revocation at the discretion of the director.

As used in this section, "drug of abuse" has the same meaning as in section 4506.01 of the Revised Code.

4511.01 Traffic laws - operation of motor vehicles definitions.

As used in this chapter and in Chapter 4513 of the Revised Code:

(A) "Vehicle" means every device, including a motorized bicycle, in, upon, or by which any person or property may be transported or drawn upon a highway, except that "vehicle" does not include any motorized wheelchair, any electric personal assistive mobility device, any device that is moved by power collected from overhead electric trolley wires or that is used exclusively upon stationary rails or tracks, or any device, other than a bicycle, that is moved by human power.

(HHH) "Operate" means to cause or have caused movement of a vehicle, streetcar, or trackless trolley.
4511.19 Operating vehicle under the influence of alcohol or drugs - OVI.

(A) (1) No person shall operate any vehicle, streetcar, or trackless trolley within this state, if, at the time of the operation, any of the following apply:

(a) The person is under the influence of alcohol, a drug of abuse, or a combination of them.

(b) The person has a concentration of eight-hundredths of one per cent or more but less than seventeen-hundredths of one per cent by weight per unit volume of alcohol in the person's whole blood.

(c) The person has a concentration of ninety-six-thousandths of one per cent or more but less than two hundred four-thousandths of one per cent by weight per unit volume of alcohol in the person's blood serum or plasma.

(d) The person has a concentration of eight-hundredths of one gram or more but less than seventeen-hundredths of one gram by weight of alcohol per two hundred ten liters of the person's breath.

(e) The person has a concentration of eleven-hundredths of one gram or more but less than two hundred thirty-eight-thousandths of one gram by weight of alcohol per one hundred milliliters of the person's urine.

(h) The person has a concentration of seventeen-hundredths of one gram or more by weight of alcohol per two hundred ten liters of the person's breath.

(Note: Levels above the listed per se, i.e. .170% BrAC, face elevated penalties.)

(D) (1) (b) In any criminal prosecution or juvenile court proceeding for a violation of division (A) or (B) of this section or for an equivalent offense that is vehicle-related, the court may admit evidence on the concentration of alcohol, drugs of abuse, controlled substances, metabolites of a controlled substance, or a combination of them in the defendant's whole blood, blood serum or plasma, breath, urine, or other bodily substance at the time of the alleged violation as shown by chemical analysis of the substance withdrawn within three hours of the time of the alleged violation. The three-hour time limit specified in this division regarding the admission of evidence does not extend or affect the two-hour time limit specified in division (A) of section 4511.192 of the Revised Code as the maximum period of time during which a person may consent to a chemical test or tests as described in that section.
(3) Upon the request of the person who was tested, the results of the chemical test shall be made available to the person or the person's attorney, immediately upon the completion of the chemical test analysis.

If the chemical test was obtained pursuant to division (D)(1)(b) of this section, the person tested may have a physician, a registered nurse, or a qualified technician, chemist, or phlebotomist of the person's own choosing administer a chemical test or tests, at the person's expense, in addition to any administered at the request of a law enforcement officer. If the person was under arrest as described in division (A)(5) of section 4511.191 of the Revised Code, the arresting officer shall advise the person at the time of the arrest that the person may have an independent chemical test taken at the person's own expense. If the person was under arrest other than described in division (A)(5) of section 4511.191 of the Revised Code, the form to be read to the person to be tested, as required under section 4511.192 of the Revised Code, shall state that the person may have an independent test performed at the person's expense. The failure or inability to obtain an additional chemical test by a person shall not preclude the admission of evidence relating to the chemical test or tests taken at the request of a law enforcement officer.

4511.191 Implied consent.

(A) (5) (a) If a law enforcement officer arrests a person for a violation of division (A) or (B) of section 4511.19 of the Revised Code, section 4511.194 of the Revised Code or a substantially equivalent municipal ordinance, or a municipal OVI ordinance and if the person if convicted would be required to be sentenced under division (G)(1)(c), (d), or (e) of section 4511.19 of the Revised Code, the law enforcement officer shall request the person to submit, and the person shall submit, to a chemical test or tests of the person's whole blood, blood serum or plasma, breath, or urine for the purpose of determining the alcohol, drug of abuse, controlled substance, metabolite of a controlled substance, or combination content of the person's whole blood, blood serum or plasma, breath, or urine. A law enforcement officer who makes a request pursuant to this division that a person submit to a chemical test or tests is not required to advise the person of the consequences of submitting to, or refusing to submit to, the test or tests and is not required to give the person the form described in division (B) of section 4511.192 of the Revised Code, but the officer shall advise the person at the time of the arrest that if the person refuses to take a chemical test the officer may employ whatever reasonable means are necessary to ensure that the person submits to a chemical test of the person's whole blood or blood serum.
or plasma. The officer shall also advise the person at the time of the arrest that the person may have an independent chemical test taken at the person's own expense. Divisions (A)(3) and (4) of this section apply to the administration of a chemical test or tests pursuant to this division.

(Note: This is for two or more OVI convictions in six years, 5 or more in 20 years or a previous felony OVI conviction.)

(b) If a person refuses to submit to a chemical test upon a request made pursuant to division (A)(5)(a) of this section, the law enforcement officer who made the request may employ whatever reasonable means are necessary to ensure that the person submits to a chemical test of the person's whole blood or blood serum or plasma. A law enforcement officer who acts pursuant to this division to ensure that a person submits to a chemical test of the person's whole blood or blood serum or plasma is immune from criminal and civil liability based upon a claim for assault and battery or any other claim for the acts, unless the officer so acted with malicious purpose, in bad faith, or in a wanton or reckless manner.

4511.192 Advice to OVI arrestee.

(A) Except as provided in division (A)(5) of section 4511.191 of the Revised Code, the arresting law enforcement officer shall give advice in accordance with this section to any person under arrest for a violation of division (A) or (B) of section 4511.19 of the Revised Code, section 4511.194 of the Revised Code or a substantially equivalent municipal ordinance, or a municipal OVI ordinance. The officer shall give that advice in a written form that contains the information described in division (B) of this section and shall read the advice to the person. The form shall contain a statement that the form was shown to the person under arrest and read to the person by the arresting officer. One or more persons shall witness the arresting officer's reading of the form, and the witnesses shall certify to this fact by signing the form. The person must submit to the chemical test or tests, subsequent to the request of the arresting officer, within two hours of the time of the alleged violation and, if the person does not submit to the test or tests within that two-hour time limit, the failure to submit automatically constitutes a refusal to submit to the test or tests.
4511.194 Having physical control of vehicle while under the influence.

(A) As used in this section: (2) "Physical control" means being in the driver's position of the front seat of a vehicle or in the driver's position of a streetcar or trackless trolley and having possession of the vehicle's, streetcar's, or trackless trolley's ignition key or other ignition device.

(B) No person shall be in physical control of a vehicle, streetcar, or trackless trolley if, at the time of the physical control, any of the following apply:

(1) The person is under the influence of alcohol, a drug of abuse, or a combination of them.

(2) The person's whole blood, blood serum or plasma, breath, or urine contains at least the concentration of alcohol specified in division (A)(1)(b), (c), (d), or (e) of section 4511.19 of the Revised Code.
Chapter 3701-53 Alcohol Testing

3701-53-01 Techniques or methods.

(A) Tests to determine the concentration of alcohol may be applied to blood, breath, urine, or other bodily substances. Results shall be expressed as equivalent to:

1. Grams by weight of alcohol per one hundred milliliters of whole blood, blood serum or plasma (grams per cent by weight);

2. Grams by weight of alcohol per two hundred ten liters of deep lung breath;

3. Grams by weight of alcohol per one hundred milliliters of urine (grams per cent by weight).

4. Nanograms by weight of a controlled substance or a metabolite or a controlled substance per milliliter of blood, urine, or other bodily substance.

The results of the tests shall be retained for not less than three years.

3701-53-02 Breath tests.

(A) The instruments listed in this paragraph are approved as evidential breath testing instruments for use in determining whether a person's breath contains a concentration of alcohol prohibited or defined by sections 4511.19, and/or 1547.11 of the Revised Code, or any other equivalent statute or local ordinance prescribing a defined or prohibited breath-alcohol concentration. The approved evidential breath testing instruments are:

1. BAC DataMaster, BAC DataMaster K, BAC DataMaster cdm;

2. Intoxilyzer model 5000 series 66, 68 and 68 EN; and

3. Intoxilyzer model 8000 (OH-5).
(C) Breath samples of deep lung (alveolar) air shall be analyzed for purposes of determining whether a person has a prohibited breath alcohol concentration with instruments approved under paragraphs (A) and (B) of this rule.

(E) Breath samples using the instrument listed under paragraph (A)(3) of this rule shall be analyzed according to the instrument display for the instrument being used. The results of subject tests shall be retained in a manner prescribed by the director of health and shall be retained in accordance with paragraph (A) of rule 3701-53-01 of the Administrative Code.

3701-53-04 Instrument checks, controls and certifications.

(B) Instruments listed under paragraph (A)(3) of rule 3701-53-02 of the Administrative Code shall automatically perform a dry gas control using a dry gas standard traceable to the national institute of standards and technology (NIST) before and after every subject test. For purposes of an instrument listed under paragraph (A)(3) of rule 3701-53-02 of the Administrative Code, a subject test shall include the collection of two breath samples. A dry gas control is not required between the two breath samples. Dry gas control results are valid when the results are at or within five one-thousandths (0.005) grams per two hundred ten liters of the alcohol concentration on the manufacturer's certificate of analysis for that dry gas standard. A dry gas control result which is outside the range specified in this paragraph will abort the subject test or instrument certification in progress.

(C) Representatives of the director shall perform an instrument certification on approved evidential breath testing instruments listed under paragraph (A)(3) of rule 3701-53-02 of the Administrative Code using a solution containing ethyl alcohol approved by the director of health according to the instrument display for the instrument being certified. A dry gas control using a dry gas standard traceable to the national institute of standards and technology (NIST) shall also be used when a certification is performed. An instrument shall be certified no less frequently than once every calendar year or when the dry gas standard on the instrument is replaced, whichever comes first. A calendar year means the period of twelve consecutive months, as indicated in section 1.44 of the Revised Code, beginning on the first day of January, and ending on the thirty-first day of December. Instrument certifications are valid when the certification results are at or within five one-thousandths grams per two hundred ten liters of the target value for that approved solution. Instruments with certification results outside the range
specified in this paragraph will require the instrument be removed from service until the instrument is serviced or repaired. Certification results shall be retained in a manner prescribed by the director of health.

(G) Results of instrument checks, controls, certifications, calibration checks and records of service and repairs shall be retained in accordance with paragraph (A) of rule 3701-53-01 of the Administrative Code.

3701-53-07 Qualifications of personnel.

(C) Breath tests used to determine whether a person's breath contains a concentration of alcohol prohibited or defined by sections 4511.19 and/or 1547.11 of the Revised Code, or any other equivalent statute or local ordinance prescribing a defined or prohibited breath alcohol concentration shall be performed by a senior operator or an operator. A senior operator shall be responsible for the care, maintenance and instrument checks of the approved evidential breath testing instruments listed in paragraphs (A)(1), (A)(2), and (B) of rule 3701-53-02 of the Administrative Code. Representatives of the director shall be responsible for the instrument certifications on approved evidential breath testing instruments listed under paragraph (A)(3) of rule 3701-53-02 of the Administrative Code.

(E) An individual meets the qualifications for an operator's permit by:

(1) Being a high school graduate or having passed the "General Education Development Test";

(2) Being a certified law enforcement officer sworn to enforce sections 4511.19 and/or 1547.11 of the Revised Code, or any other equivalent statute or local ordinance prescribing a defined or prohibited breath alcohol concentration, or a certified corrections officer, and;

(3) Having demonstrated that he or she can properly operate the evidential breath testing instrument by having successfully completed a basic operator or conversion training course for the type of approved evidential breath testing instrument for which he or she seeks a permit.
3701-53-08 Surveys and proficiency examinations.

(D) Individuals desiring to function as operators who apply for or are issued an operator access card under paragraph (C) of rule 3701-53-09 of the Administrative Code, shall be subject to a proficiency examination once per calendar year conducted at the director's discretion.

(E) During proficiency examinations, senior operators, operators and applicants shall accept samples, perform tests and report all results to a representative of the director or the proficiency examination administered by a national program for proficiency testing. During surveys and proficiency examinations, permit holders, applicants and laboratories shall grant the director's representatives access to all portions of the facility where the permit is used or is intended to be used, and to all records relevant to compliance with the requirements of this chapter.

3701-53-09 Permits.

(D) Individuals desiring to function as operators using instruments listed under paragraph (A)(3) of rule 3701-53-02 of the Administrative Code shall apply to the director of health for a permit, which shall be in the form of an operator access card, on forms prescribed and provided by the director of health. The director of health shall issue a permit, which shall be in the form of an operator access card, to perform tests to determine the amount of alcohol in a person's breath to individuals who qualify under the applicable provisions, including but not limited to, paragraph (D) and/or (E) of rule 3701-53-07 of the Administrative Code.

(E) Permits issued under paragraph (D) of this rule shall not expire unless revoked by the director under rule 3701-53-10 of the Administrative Code or are voluntarily surrendered. To retain a permit under paragraph (D) of this rule the individual shall present evidence satisfactory to the director that he or she continues to meet the qualifications established by the applicable provisions of rules 3701-53-07 and 3701-53-08 of the Administrative Code for issuance of the permit sought.

(H) An individual may use any and all approved breath testing instruments for which the individual has been issued a permit.
3701-53-10 Revocation, suspension and denial of permits or operator access cards.

The director of health may deny, suspend or revoke the permit or operator access card of any permit holder or individual:

(A) Who obtains or seeks to obtain a permit or operator access card falsely or deceitfully;

(B) Who fails to comply with any of the provisions of rules 3701-53-01 to 3701-53-09 of the Administrative Code; or

(C) Who:

(1) As a senior operator, fails to demonstrate that he or she can properly care for, maintain, perform instrument checks upon, and operate the breath testing instrument for which the permit is held;

(2) As an operator, fails to demonstrate that he or she can properly operate the breath testing instrument for which the permit or operator access card is held;

Annual Access Card Proficiency

In order to maintain a valid access card, the card holder must perform either a complete, successful violator (subject) test with a breath alcohol concentration (refusals, time outs, or other incomplete tests do not qualify) OR a complete, successful proficiency test, following guidelines provided by the Alcohol & Drug Testing Program at least once each calendar year (January 1 through December 31). If a complete subject test or proficiency test is not provided, the access card holder is subject to revocation. Refer to Ohio Administrative Code Rules 3701-53-08 (D), 3701-53-09 (E), and 3701-53-10 (B) and (C)(2).
NOMENCLATURE

INTOXILYZER 8000
FRONT VIEW
OPEN

Display | Start Test Button | LED Power Indicator | Paper Feed

2-D Bar Code Reader
Signature Pad
Stylus
Keyboard
Thermal Paper Slot
INTOXILYZER 8000
REAR VIEW

- Power Switch 110 Volt AC
- Power Cord 110 Volt AC
- Battery Power Switch (12 Volt DC)
- Instrument Serial Number
- Dry Gas Standard Pressure Gauge
INTOXILYZER 8000
REAR VIEW
(BOTTOM)

TOP VIEW
INTOXILYZER 8000
INTERNAL PRINTER

Internal Printer Door Locks

Internal Printer Paper Roll
1. DO NOT USE INK OR PENCIL ON THE SIGNATURE PAD.

2. Use the attached STYLUS or an ink pen **WITH PEN TIP RETRACTED**.

3. To complete a signature response press ACCEPT on the signature pad or ENTER on the keyboard.

4. To cancel a signature prior to pressing ACCEPT or ENTER, press CANCEL on the signature pad or ESCAPE on the keyboard.

5. You **may not** make signature corrections after pressing ACCEPT or ENTER.
1. To complete a response, press the ENTER key.

2. To scroll through the menus, press the arrow↑ or ↓ or PgUp/PgDn keys.

3. Correct mistakes prior to pressing ENTER or use the BACKSPACE key to erase one character at a time.

4. Make corrections after pressing ENTER by reviewing data.

5. Re-type the correct response.
1. When “PLEASE SWIPE / SCAN ACCESS CARD OR PRESS ENTER” appears on the display, the 2-D BAR CODE reader automatically activates.

2. Place your access card under the red light near the keyboard. Do not swipe the access card in operator license reader (top of instrument).

3. A “3-beep tone” indicates the information has been entered. (A “2-beep tone” indicates the information has not been entered.)

4. If the 2-D BAR CODE fails to operate, press ENTER to manually enter the required data using the keyboard while following the instrument display.

5. The 2-D BAR CODE reader is light sensitive. Use a flashlight to illuminate the access card in low light conditions.
1. When “PLEASE SWIPE / SCAN DL OR PRESS ENTER” appears on the display, slide the violator operator’s license (DL) or state ID card through the magnetic card reader from left to right with the magnetic strip to the rear.

2. Slide the violator operator’s license or state ID card **UPSIDE-DOWN** with license front **FACING YOU** from **LEFT** to **RIGHT** (magnetic strip upside down facing rear).

3. A “3 beep tone” indicates the information has been entered. (A “2-beep tone” indicates the information **has not** been entered.)

4. Press **ENTER** to manually enter the required data using the keyboard.
OPERATION

INTOXILYZER 8000
THEORY OF OPERATION

1. The Intoxilyzer 8000 uses the method of **INFRARED ABSORPTION** to analyze the breath sample.

2. The IR light source is a **PULSED INFRARED** light. Infrared light is not visible to the human eye. It is similar to the light from a TV channel changer.

3. The decrease in intensity of the IR light due to absorption by alcohol in the breath sample is proportional to the amount of alcohol in the breath.

4. **The breath sample hose is heated to prevent condensation.**

![Sample chamber with air only](image)

With air only in the sample chamber, all of the infrared light from the bulb reaches the detector on the far end of the chamber. There is no change in the intensity of the light.
When alcohol is introduced into the sample chamber, some of the infrared light from the bulb is absorbed by the alcohol molecules. **The higher the alcohol concentration, the more light is absorbed, the higher the breath alcohol concentration reading (BrAC) on the instrument.**
INTOXILYZER 8000
POWER UP

110-VOLT AC POWER

AC Power is the PRIMARY and default power source for the Intoxilyzer 8000.

- To power up the instrument using AC POWER, connect the AC POWER CORD to the instrument and insert the 110-VOLT POWER PLUG into a 110-volt power source.

- Move the AC POWER SWITCH and BATTERY POWER SWITCH to the ON position.

- Press the START TEST button. The instrument will power up and enter NOT READY Mode.

12-VOLT DC POWER

DC Power is a SECONDARY power source for the Intoxilyzer 8000.

- To power up the instrument using 12-VOLT POWER, the auxiliary power source should be started before connecting the DC POWER CORD to the instrument and inserting the 12-VOLT POWER TIP into a 12-volt power source.

- If you are going to use a DC power source, you should consult with Alcohol & Drug testing prior to use.

- Move the AC POWER SWITCH and BATTERY POWER SWITCH to the ON position.

- Press the START TEST button and the instrument will power up and enter NOT READY Mode.
INTOXILYZER 8000

The instrument will display one of the following CHARGING INDICATORS.

**INSTRUMENT DISPLAY**

The Intoxlyzer 8000 is in **NOT READY** Mode during the warm up period using AC or DC Power.

The Intoxlyzer 8000 is in **READY** or **STANDBY** Mode using AC or DC Power.

The Intoxlyzer 8000 is in **READY** or **STANDBY** Mode using **INTERNAL BATTERY** Power.

The Intoxlyzer 8000 is in **READY** or **STANDBY** Mode using AC or DC Power. The battery is full charged.

**INSTRUMENT POWER LIGHT**

A green light indicates the Intoxlyzer 8000 is in **NOT READY, READY** or **STANDBY** Mode – Battery Charged.

An amber lights indicates the Intoxlyzer 8000 is in **NOT READY, READY** or **STANDBY** Mode – Battery Charging.

A red light indicates the Intoxlyzer 8000 is connected to an AC or DC power source but not powered up.

**TOTAL POWER OFF**

Move the **AC POWER SWITCH** and the **BATTERY POWER SWITCH** to the **OFF** position.
INTOXILYZER 8000
NOT READY / READY / STANDBY / DIAGNOSTICS

NOT READY MODE
The instrument enters NOT READY MODE after power up displaying the date and time. The display will switch between NOT READY and CHARGING STATUS. After approximately 25 minutes, the instrument will beep and display the countdown to READY MODE.

STANDBY MODE
When not used for approximately 30 minutes the instrument enters STANDBY MODE. The instrument will remain in STANDBY MODE until you press the START TEST button or power the instrument off.

Press the START TEST button and the instrument will beep and display the countdown to READY MODE. This takes approximately one minute.

DIAGNOSTICS
The instrument performs an AIR BLANK and DIAGNOSTIC TEST as part of the startup period. The instrument will cycle through each function and display PASS if functioning properly.

If any of the diagnostics FAIL, restart by pressing the START TEST button. If this second diagnostic fails, discontinue use, NOTIFY ADT AT (614) 644-4678 and forward an Event Report.

If any function does not perform, including but not limited to 2 D Bar Code reader, signature pad, print locks (does not print record), turn both switches off, wait momentarily, then turn both switches back on and press the START TEST button. (See also the page on data downloads.)
INTOXILYZER 8000

DATA ENTRY

To initiate a subject test sequence, press the START TEST button.

When responses are displayed, they are the default responses.

Place OPERATOR ACCESS CARD under the red light near the keyboard. The 2-D BAR CODE reader is light sensitive. You may use a flashlight to illuminate the access card in low light conditions.

Place OPERATOR ACCESS CARD under the red light near the keyboard. The 2-D BAR CODE reader is light sensitive. You may use a flashlight to illuminate the access card in low light conditions.

Type in your 4-DIGIT PIN NUMBER. Press ENTER to continue.

Verify all the information as the prompts are displayed. If the prompt information is correct, press ENTER to continue. If the prompt information is incorrect, correct manually using the keyboard, then press ENTER to continue.

If you have issues with the access card and/or if the information on the card is incorrect, contact the Alcohol & Drug Testing Program at 614-644-4678.

Your LAST NAME from the Operator access card appears on the display. Press ENTER, if correct, to continue.

Your FIRST NAME from the Operator access card appears on the display. Press ENTER, if correct, to continue.

Your BADGE NUMBER from the Operator access card appears on the display. Press ENTER, if correct, to continue.

Your AGENCY from the Operator access card appears on the display. Press ENTER, if correct, to continue.

Your COUNTY from the Operator access card appears on the display. Press ENTER, if correct, to continue.
Use 24-HOUR format 00:00. Press ENTER to continue. Time First Observed MUST be twenty minutes or more prior to the first breath sample.

The “Y” (Yes) response is displayed. Press “N” (No) if the OPERATOR is not the ARRESTING OFFICER. Once the correct “Y” or “N” response appears on the display. Press ENTER to continue.

If the ARRESTING OFFICER has an OPERATOR ACCESS CARD, place the ARRESTING OFFICER’S OPERATOR ACCESS CARD under the red light near the keyboard.

If the ARRESTING OFFICER does not have an OPERATOR ACCESS CARD, press ENTER to manually enter the required data using the keyboard following the instrument display. If the arresting officer does have an access card, the information from the access card will appear and all the fields will need to be verified and manually corrected as needed.

The agency Court code is displayed. Press ENTER, if correct, to continue.

The agency NCIC # is displayed. Press ENTER, if correct, to continue.

The agency Street address is displayed. Press ENTER, if correct, to continue.

The arresting agency city is displayed. Press ENTER, if correct, to continue.

The arresting agency state is displayed. Press ENTER, if correct, to continue.

The arresting agency zip code is displayed. Press ENTER, if correct, to continue.

The “N” (No) response is displayed. Press ENTER to skip REVIEW DATA. Press “Y” (Yes) to REVIEW the information. Press ENTER to verify each entry. Press “N” (No) followed by ENTER to continue.
TESTING SEQUENCE / SUBJECT TEST

The TEST LOCATION of “S” (Station) is displayed. Press “R” if this is a roadside test. Press ENTER to continue.

The “N” (No) response is displayed. Press “Y” (Yes) if you need a copy of the July 2010 Implied Consent Form to provide to the subject. (Check with your court about using the proper revision.) Press ENTER to continue.

The instrument will display the CURRENT DATE. Change the date if necessary. Press ENTER to continue.

The instrument will automatically display the CURRENT DAY. The instrument automatically forwards to the next display field after a few moments.

Enter the time of violation using 24 hour format. Press ENTER to continue.

The “N” (No) response is displayed. Press “Y” (Yes) once the form has been read and shown to the subject by the arresting officer. Note: The program will not continue until the operator presses “Y”. Press ENTER to continue.

The “N” (No) response is displayed. Press ENTER to continue. If this a checkpoint arrest, change the response to “Y”. Press ENTER to continue.

Type the route or street. Press ENTER to continue.

Type the street address, milepost or nearest cross street. Press ENTER to continue.

Type the city or township name. Press ENTER to continue.

Your COUNTY from the access card appears on the display. If the county information is incorrect, type in the correct county. Press ENTER to continue.

Test Location (R/S) S
Station

Print Implied Consent Warning?
N

Date of Violation:

Day of Violation?

Time of Violation?

Implied Consent Warning Given?
N

Sobriety Checkpoint Arrest?
N

Violation Street Name?

Violation Street Number or MP?

Violation City?

Violation County?
The “N” (No) response is displayed. If a crash is involved, type “Y” (Yes). Press ENTER to continue.

The “N” (No) response is displayed. If this is a fatal crash, type “Y” (Yes). Press ENTER to continue.

The “N” (No) response is displayed. If this is an injury crash, type “Y” (Yes). Press ENTER to continue.

Press ENTER to skip REVIEW DATA. Press “Y” (Yes) to REVIEW the information. Press ENTER to verify each entry. Press “N” (No) followed by ENTER to continue.

The SUBJECT’S LAST NAME is displayed as it appears on the operator’s license or state ID card or type the SUBJECT’S LAST NAME using the keyboard. Press ENTER to continue.

The SUBJECT’S FIRST NAME is displayed as it appears on the operator’s license or state ID card or type the SUBJECT’S FIRST NAME using the keyboard. Press ENTER to continue.

The SUBJECT’S STREET ADDRESS is displayed as it appears on the operator’s license or state ID card or type the SUBJECT’S STREET ADDRESS using the keyboard. Press ENTER to continue.

The SUBJECT’S CITY is displayed as it appears on the operator’s license or state ID card or type the SUBJECT’S CITY using the keyboard. Press ENTER to continue.

The SUBJECT’S STATE is displayed as it appears on the operator’s license or state ID card. The display defaults to “OH”. If the state differs, type the two letter SUBJECT’S STATE abbreviation or scroll through the menu to select the correct state. Press ENTER to continue.
The **SUBJECT'S ZIP CODE** is displayed. If the zip code differs, type the correct zip code. Press **ENTER** to continue.

The **SUBJECT'S DATE OF BIRTH** is displayed as it appears on the operator’s license or state ID card or type the **SUBJECT’S DATE OF BIRTH** using the keyboard. The format is MM/DD/YYYY. Press **ENTER** to continue.

The instrument will display the **SUBJECT’S AGE**. The instrument automatically forwards to the next display field after a few moments.

IF the **SUBJECT’S SOCIAL SECURITY #** is displayed, verify the number. Follow your agency and local court policy about data entry. Press **ENTER** to continue.

The **SUBJECT’S SEX** is displayed. The prompt defaults to “M”. Enter the correct gender. Press **ENTER** to continue.

Type the **COUNTY OF RESIDENCE** using the keyboard. Press **ENTER** to continue.

The **SUBJECT’S RACE** is displayed. The prompt defaults to “W”. Enter race format (A=Asian, B=Black, H=Hispanic, N= Native American, O=Other, W=White) or scroll through the menu. Press **ENTER** to continue.

The subject’s **OPERATOR LICENSE #/STATE ID#** is displayed as it appears on the operator’s license or state ID card or type the number using the keyboard. Press **ENTER** to continue.

The **STATE OF ISSUE** is displayed as it appears on the operator’s license or state ID card. The display defaults to “OH”. If the subject’s state differs, type the two letter subject’s state abbreviation or scroll through the menu to select the correct state. Press **ENTER** to continue.
The subject’s **LICENSE CLASS** is displayed as it appears on the operator’s license or state ID card. The display defaults to “D”. Use license class format **D=Operator, C=CDL** or scroll through the menu. Press ENTER to continue.

License Class?  D
None

The subject’s **LICENSE RESTRICTIONS** are displayed as they appear on the operator’s license or state ID card. The display defaults to “A”. Use format **A=None, B= Corrective Lenses** or scroll through the menu. Press ENTER to continue.

License Restrictions?  A
None

The subject’s **LICENSE ENDORSEMENTS** are displayed as they appear on the operator’s license or state ID card. The display defaults to “NONE”. Use format **M=Motorcycle, S=School Bus** or scroll through the menu. Press ENTER to continue.

License Endorsements?
None

The subject’s **LICENSE EXPIRATION DATE** is displayed as it appears on the operator’s license or state ID card or type the subject’s license expiration date using the keyboard. The format is MM/YYYY for expiration. Press ENTER to continue.

License Expiration Date?

REVIEW DATA (Y/N) is displayed. The display defaults to “N” (No). Press ENTER to skip REVIEW DATA. Press “Y” (Yes) to REVIEW the information. Press ENTER to verify each entry.

Review Data (Y/N)?
N

If the arresting officer is not the operator, request the arresting officer to sign on the attached pad. Press ACCEPT on the signature pad or press ENTER.

Arresting Officer
Please Sign on Attached Pad

Have the violator sign on the SIGNATURE PAD. If the subject refuses, print **REFUSED** on the signature pad. Press ACCEPT on the signature pad or press ENTER.

Violator
Please Sign on Attached Pad

Request the **IMPLIED CONSENT WITNESS** to sign on the SIGNATURE PAD. If the witness is not present during the test, print their name. Press ACCEPT on the signature pad or press ENTER.

Witness
Please Sign on Attached Pad
The **OPERATOR** signs on the **SIGNATURE PAD**. Press **ACCEPT** on the signature pad or press **ENTER**.

**Refuse Breath Test?**

The display defaults to “N” (No).
Press “Y” (Yes) if the subject refuses the breath test.
Press **ENTER** to continue with the testing sequence. A breath test refusal will print if the subject refuses.

At any time during the breath sample, when Please Blow/R appears, the operator can press **R** and enter as a refusal.

The “N” (No) response is displayed.
Press **ENTER** to skip **REVIEW DATA**.
Press “Y” (Yes) to **REVIEW** the information.
Press **ENTER** to verify each entry.

The instrument will perform an air blank, a diagnostic test, an air blank, reference, a dry gas control (results must be .100 +/- .005), an air blank, and reference.

**PLACE A MOUTHPIECE ON THE BREATHTUBE. ADVISE THE SUBJECT TO PROVIDE A BREATHTUBE SAMPLE. THE SUBJECT SHOULD NOT QUIT UNTIL ALL BREATHE IS EXHAUSTED.**
The subject has three minutes to complete a sample.

**Discard the Mouthpiece**
Press any key to Proceed.

The instrument will perform an air blank.

Enter the **CITATION #**.
Press **ENTER** to continue.

Enter the **VEHICLE VIN#** (Vehicle Identification Number).
Press **ENTER** to continue.

Enter the **VEHICLE LICENSE #**.
Press **ENTER** to continue.

The display defaults to “OH”.
If the subject’s license state differs, type the two letter vehicle license state abbreviation or scroll through the menu to select the correct state.
Press **ENTER** to continue.
Type in the **VEHICLE YEAR**. Press **ENTER** to continue.

Type in the **VEHICLE MAKE**. Press **ENTER** to continue.

**VEHICLE TYPE?** is displayed and defaults to “P”. Use **VEHICLE TYPE** format, P= Passenger Car, T= Pick up truck, CMV=Commercial Motor Vehicle, M= Motorcycle or scroll through the menu for vehicle type. Press **ENTER** to continue.

The “Y” (Yes) response is displayed. Press “N” (No) if the operator is not the vehicle owner. Press **ENTER** to continue.

Enter information prompted by the displays if the operator is NOT the vehicle owner.

The “N” (No) response is displayed. Press **Enter** to continue.

The “N” (No) response is displayed. Press **ENTER** to skip **REVIEW DATA**. Press “Y” (Yes) to **REVIEW** the information. Press **ENTER** to verify each entry.

Press any key on the keyboard to continue. **Do not replace the mouthpiece at this time.**

The remaining **COUNTDOWN** (if applicable) from subject sample one (2 minutes) is displayed.

The instrument will perform an air blank and reference.

Place a new **MOUTHPIECE** on the breath tube for the second subject sample. **ADVISE THE SUBJECT TO PROVIDE A SECOND BREATH SAMPLE. THE SUBJECT SHOULD NOT QUIT UNTIL ALL BREATH IS EXHAUSTED.**

At any time during the breath sample, when **Please Blow/R** appears, the operator can press R and enter as a refusal.
DISCARD THE MOUTHPIECE
Press any key to proceed.

The instrument will perform an air blank, reference, a dry gas control (results must be .100 +/- .005), and an air blank.

The instrument continues until the test is complete. **Printing of forms begins.**

The instrument returns to “Ready Mode”.

This is a complete subject test form. There will be a dry gas control before the first breath sample and after the last breath sample. There must be two complete breath samples for the breath test. **The BrAC reading on the report will be the lower of the two sample readings.**
## Subject Information

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Date</td>
<td>03/11/2009</td>
</tr>
<tr>
<td>Name</td>
<td>GOOSES, JOHNNY B</td>
</tr>
<tr>
<td>Drivers License Number</td>
<td>51253255</td>
</tr>
<tr>
<td>State</td>
<td>OH</td>
</tr>
<tr>
<td>Current Street Address</td>
<td>123 MAIN STREET</td>
</tr>
<tr>
<td>City</td>
<td>ANYWHERE</td>
</tr>
<tr>
<td>Zip Code</td>
<td>12345</td>
</tr>
<tr>
<td>Date of Birth</td>
<td>08/21/1955</td>
</tr>
<tr>
<td>Age</td>
<td>53</td>
</tr>
<tr>
<td>Sex</td>
<td>M</td>
</tr>
</tbody>
</table>

## Arrest Information

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arresting Officer</td>
<td>ANYWHERE, PD</td>
</tr>
<tr>
<td>Testing Officer</td>
<td>ANYWHERE, PD</td>
</tr>
<tr>
<td>Time of Violation</td>
<td>18:00</td>
</tr>
<tr>
<td>Time First Observed</td>
<td>18:00</td>
</tr>
<tr>
<td>Age</td>
<td>53</td>
</tr>
<tr>
<td>Sex</td>
<td>M</td>
</tr>
</tbody>
</table>

## Test Information

<table>
<thead>
<tr>
<th>Instrument Serial #</th>
<th>Test Site #</th>
<th>Date of Last Certification</th>
<th>Certification Bottle #</th>
<th>Target Value</th>
<th>Certification Solution #</th>
<th>Certification Standard Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-002353</td>
<td>12-0121500-002353</td>
<td>10/29/2008</td>
<td>193</td>
<td>0.103 g/210L</td>
<td>DRY GAS STANDARD</td>
<td>10552</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test</th>
<th>Time</th>
<th>BrAC</th>
<th>Target</th>
<th>Standard Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test</td>
<td>Time</td>
<td>BrAC</td>
<td>Target</td>
<td>Standard Deviation</td>
</tr>
<tr>
<td>Air Blank</td>
<td>0.000</td>
<td>19:06</td>
<td>0.100 g/210L</td>
<td>10552</td>
</tr>
<tr>
<td>Diagnostic</td>
<td>0.103</td>
<td>19:07</td>
<td>0.100 g/210L</td>
<td>10552</td>
</tr>
<tr>
<td>Air Blank</td>
<td>0.000</td>
<td>19:06</td>
<td>0.100 g/210L</td>
<td>10552</td>
</tr>
<tr>
<td>Air Blank</td>
<td>0.000</td>
<td>19:06</td>
<td>0.100 g/210L</td>
<td>10552</td>
</tr>
<tr>
<td>Subject Test 1</td>
<td>0.055</td>
<td>19:10</td>
<td>0.100 g/210L</td>
<td>10552</td>
</tr>
<tr>
<td>Air Blank</td>
<td>0.000</td>
<td>19:10</td>
<td>0.100 g/210L</td>
<td>10552</td>
</tr>
<tr>
<td>Air Blank</td>
<td>0.000</td>
<td>19:10</td>
<td>0.100 g/210L</td>
<td>10552</td>
</tr>
<tr>
<td>Subject Test 2</td>
<td>0.060</td>
<td>19:13</td>
<td>0.100 g/210L</td>
<td>10552</td>
</tr>
<tr>
<td>Air Blank</td>
<td>0.000</td>
<td>19:14</td>
<td>0.100 g/210L</td>
<td>10552</td>
</tr>
<tr>
<td>Air Blank</td>
<td>0.000</td>
<td>19:15</td>
<td>0.100 g/210L</td>
<td>10552</td>
</tr>
</tbody>
</table>

BrAC = 0.055 g/210L
Pressing the escape key twice on the keyboard will **DISPLAY** the following:

**Swipe/Scan Certification Card or Press Enter**

Place **OPERATOR ACCESS CARD** under the red light near the keyboard or press **ENTER** to manually enter the access card number. Enter your **PIN** number when requested.

Use the ← or → **ARROW** keys to move the cursor or press the **LETTER KEY** to go directly to that function.

Press “A” followed by **ENTER** to perform a **CONTINUOUS AIR BLANK**. The instrument pump will **PURGE** the sample cell. Press the **START TEST** button to stop the **CONTINUOUS AIR BLANK**. The **DISPLAY** automatically returns to the menu.

Press “D” followed by **ENTER** to perform and print a **DIAGNOSTIC TEST**. The **DISPLAY** automatically returns to the menu.

Press “P” followed by **ENTER** to perform a **PRINT TEST**. The **DISPLAY** automatically returns to the menu.

Press “R” followed by **ENTER** to **RECALL** prior subject test records from memory.

The most recent **RECORD DATE** will be displayed. Press the **PgUp/PgDn** keys to scroll through dates. Once the correct **RECORD DATE** appears, press **ENTER**.

The number of **RECORDS** will be displayed for that date. Press **ENTER** to continue.
Use the ↑ or ↓ ARROW keys to display each RECORD. Use the ← or → ARROW keys to view additional information to confirm the record. Press ENTER to PRINT the displayed record. Press the ESCAPE key until the DISPLAY returns to the menu.

Press “S” to REPRINT LAST TEST. Press ENTER to display available forms. Scroll through the forms for the appropriate selection.

Press ENTER to print ALL forms from the last SUBJECT TEST or scroll through the forms.

Press ENTER to print ONLY the SUBJECT TEST REPORT or scroll through the forms.

Press ENTER to print ONLY the front of the ALS (Administrative License Suspension) FORM or scroll through the forms.

Press ENTER to print ONLY the IMPLIED CONSENT FORM or scroll through the forms.

Press ENTER to print ONLY the IMPAIRED DRIVER REPORT or to scroll through the forms.

Press ESCAPE to exit REPRINT WHICH FORM? SEQUENCE ABORTED will be displayed with the HIGH/LOW tone. The DISPLAY returns to the menu.

Press “Q” followed by ENTER to return the instrument to READY MODE.

The instrument returns to Ready Mode.
EXCEPTION MESSAGES
INTOXILYZER 8000

A message may be displayed to the operator indicating an exception has been identified. The following chart includes the exception messages displayed, the issue identified by the instrument and the operator’s best practices to complete a valid testing sequence. Whenever a new testing sequence is initiated, the operator should re-instruct the subject on how to successfully complete a test sequence, utilize a new mouthpiece and use discretion when determining if a new observation period should be performed.

<table>
<thead>
<tr>
<th>Exception Displayed</th>
<th>Issue</th>
<th>Best Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Fail</td>
<td>Ethanol was detected in the air brought into the instrument during an air blank.</td>
<td>Check area around instrument for a possible source of ethanol and make best effort to remove source and/or ventilate area. Retest subject.</td>
</tr>
<tr>
<td>Deficient Sample</td>
<td>The subject does not provide an adequate sample during the required 3 minute time frame.</td>
<td>Retest subject.</td>
</tr>
<tr>
<td>Diagnostic Fail</td>
<td>The instrument did not successfully complete an internal diagnostic check. The test record will identify and print the specific diagnostic failure.</td>
<td>Retest subject. Contact ADT (see below) if second sequence is unsuccessful.</td>
</tr>
<tr>
<td>Dry Gas Out of Tolerance</td>
<td>The dry gas control value generated is outside of required limits.</td>
<td>Retest subject. Contact ADT (see below) if second sequence is unsuccessful.</td>
</tr>
<tr>
<td>Improper Sample</td>
<td>The subject provided a breath sample at the wrong time in the sequence.</td>
<td>Retest subject.</td>
</tr>
<tr>
<td>Condition</td>
<td>Description</td>
<td>Action</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>Input Timeout</td>
<td>The data entry function timed-out waiting for input from the operator.</td>
<td>Retest subject.</td>
</tr>
<tr>
<td>Interferent Detect</td>
<td>A substance other than alcohol was detected in the breath sample.</td>
<td>Retest subject. Request a blood or urine sample if second sequence is unsuccessful.</td>
</tr>
<tr>
<td>Invalid Sample</td>
<td>Possible mouth alcohol was detected in the subject’s sample.</td>
<td>Retest subject.</td>
</tr>
<tr>
<td>No Sample Given</td>
<td>The subject did not provide a breath sample.</td>
<td>Retest subject. Request a blood or urine sample if second sequence is unsuccessful.</td>
</tr>
<tr>
<td>No .020 agreement</td>
<td>The subject test results were not within .020 g/210L of each other.</td>
<td>Retest subject.</td>
</tr>
<tr>
<td>Purge Fail</td>
<td>The air blank after an analytical reading was not adequately cleared within required limits.</td>
<td>Retest subject. Contact ADT (see below) if second sequence is unsuccessful.</td>
</tr>
<tr>
<td>Range Exceeded</td>
<td>The analytical value exceeds the maximum reported value of the instrument.</td>
<td>Retest subject. Contact ADT (see below) if second sequence is unsuccessful.</td>
</tr>
<tr>
<td>RFI Detect</td>
<td>Radio Frequency Interference has been detected.</td>
<td>Check area around instrument for a possible source of radio frequency and make best effort to remove source from the area. Retest subject.</td>
</tr>
<tr>
<td>Sequence Aborted</td>
<td>The Start Test button was pressed during an ongoing test sequence.</td>
<td>Retest subject.</td>
</tr>
<tr>
<td>Tank Pressure Low</td>
<td>Dry Gas Control pressure is below 50 PSI.</td>
<td>Complete testing sequence and contact ADT (see below).</td>
</tr>
</tbody>
</table>
Tank Pressure Below Minimum – Shutting Down

Dry Gas Control pressure is below 25 PSI.

Use a different instrument or method of obtaining a sample. Contact ADT (see below).

Ohio Department of Health
Alcohol & Drug Testing Program
Phone (614) 644-4678
Fax (614) 279-9179

EVENT REPORT
Use this form to report any issues with the instrument. The form is available in a document file for agencies to download for their own use.
INTOXILYZER 8000
LASER JET PRINTER
STATIONARY APPLICATION

The internal Pentax thermal printer is the default printer for the instrument.

When the instrument is used inside the station or when returned to the station after portable use, connect the instrument to the Brother Laser Jet printer with the USB cable.

Turn the Laser Jet power switch to the ON position. The USB connection automatically sends all printing to the Laser Jet printer when connected to the instrument.

A flashing yellow toner light indicates the toner needs to be replaced soon. Toner can be obtained from a local vendor.

To return to the internal Pentax thermal printer for portable use, disconnect the laser jet USB cable from the instrument. The instrument is now ready for portable use. The internal Pentax thermal printer is automatically ready for printing.

It is recommended that the Laser Jet printer remains connected unless the instrument is removed for portable use.
INTOXILYZER 8000
DATA TRANSFER / INSTRUMENT UPDATES

To transfer data from the Intoxilyzer 8000 and receive instrument updates:

1. Turn both power switches off, wait momentarily, then turn both switches back on and press the START TEST button.
2. Wait approximately one minute/NOT READY MODE appears on the display.
3. Press and hold the “CTRL” and the “U” keys at the same time.
4. The instrument will automatically connect to the server.
5. While DOWNLOADING the following appears on the instrument display:

   **DO NOT TURN POWER OFF UNTIL TRANSFER IS COMPLETE**

   ![Comms Transfer](image1)
   Comms Transfer Connecting
   Comms Transfer Connected

   ![Comms Transfer](image2)
   Comms Transfer Comms Session Active
   Comms Transfer Records Downloading

   Operator.dat file
   Uploading

6. When DOWNLOAD is successful the following appears on the instrument display:

   ![Comms Transfer](image3)
   Comms Transfer Upload: OK

7. Press any key on the keyboard and the instrument display returns to normal.

   Ready Mode
   Push Any Button To Start
If **DOWNLOAD** is **UNSUCCESSFUL**, the following appears on the instrument display:

<table>
<thead>
<tr>
<th>No Connect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retry? Y/N</td>
</tr>
</tbody>
</table>

Press Y. If the retry fails, the following appears on the display:

<table>
<thead>
<tr>
<th>Comms: Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upload Fail</td>
</tr>
</tbody>
</table>

**IF A SECOND “CTRL” “U” FAILS -**

**FORWARD AN EVENT REPORT VIA FAX.**

**NOTIFY ADT AT (614) 644-4609**

**LEAVE MESSAGE IF NO ANSWER.**

**PLEASE GIVE AGENCY NAME,**

**INSTRUMENT SERIAL NUMBER, AND ADVISE COMMUNICATION TRANSFER FAILED**

Press Any Key To Continue Subject Testing

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**Annual Access Card Proficiency**

**EACH YEAR** every I-8000 operator MUST show proficiency

- Conduct a subject breath test (Successfully - no exceptions, BrAC result reported)

**OR**

- Perform a proficiency test (Follow I-8000 Proficiency test instructions from ODH website.)

**THEN**

- Upload results to ODH (Control-U)

Please conduct as early in the year as possible.

If you do not complete a successful proficiency or subject test in a calendar year, your card will be inactivated. You will need to pass a written test and proficiency test WITH an inspector in order to be reactivated.
Annual Access Card Proficiency

In order to maintain a valid access card, the card holder must perform either a complete, successful violator (subject) test with a breath alcohol concentration (refusals, time outs, or other incomplete tests do not qualify) OR a complete, successful proficiency test, following guidelines provided by the Alcohol & Drug Testing Program at least once each calendar year (January 1 through December 31). If a complete subject test or proficiency test is not provided, the access card holder is subject to revocation. Refer to Ohio Administrative Code Rules 3701-53-08 (D), 3701-53-09 (E), and 3701-53-10 (B) and (C)(2).
REVIEW QUESTIONS – I-8000

How do you enter a response on the signature pad? _________________________

How do you cancel a response on the signature pad? _________________________

To complete a response, you should press the _______ key.

What indicates data has been accepted for the access card scan and/or the DL scan? _________________________

What indicates the scan/swipe fails? _________________________

What is the scientific principle used by the Intoxilyzer 8000 to analyze the breath sample? _________________________

What is the light source for the Intoxilyzer 8000? _________________________

How is condensation prevented in the breath tube? _________________________

If a function of the I-8000 does not perform correctly, e.g. the 2-D bar code reader, what should you do to restart the instrument? _________________________

How do you initiate a subject test sequence? _________________________

The operator has ___ minutes to obtain the breath sample from the subject.

When can the operator initiate a refusal? _________________________

What is happening when AIR BLANK is displayed on the screen: _________________________

Which BrAC reading is printed for the test result? _________________________

Which buttons do you use to perform a diagnostic test? _________________________

Which buttons do you use to print the last test on the instrument? _________________________
Which buttons do you use to recall a prior subject test from memory on the instrument?

________________________________________________________
__________________________________________________________________

An aborted test on the Intoxilyzer is indicated by what type of audible signal?
________________________________________________________

What should you do to correct an ambient fail?
________________________________________________________
__________________________________________________________________

___ ______ will cause an invalid sample.

________ closely matches the signs and symptoms of alcohol. What exception message will be displayed?
________________________________________________________

In order to maintain a valid access card, the card holder must perform either a complete (positive BrAC)________ test OR a ________ test each calendar year.

Normally to become under the influence of alcohol, a person can ______ alcohol.

All traces of alcohol will be gone from the mouth within ________________ after the last drink.

How long is the observation period prior to a breath test? _____ minutes.

________ ________ is the single greatest factor in the absorption rate of alcohol.

How is alcohol removed from the body?
________________________________________________________

At what rate is alcohol removed from the body?
________________________________________________________

The fundamental law supporting breath testing is ________’s ______.

When the subject has been requested to provide a breath sample, they are instructed to give a sample of ________ ________ ________.

ORC 3701.143 outlines the duties of the ________________ __ ____________.

ORC 4511.19 provides that no person can operate a vehicle in this state if you have ________ ________ ________ to believe the person is impaired.
The per se level for impairment in Ohio is: _____ g/210L

You have ___ hours after the ____________ _______________ (last operation) of a vehicle to obtain a breath sample.

A person tested pursuant to 4511.19 must be advised of their ______ _________ and the right to a(n) ________________ _____________.

The advice and consequences must be __________ and __________ to the violator by the ______________ officer in the presence of __ ________________.

Breath test results must be maintained for ______ years.

Dry gas controls are conducted before and after each ____________ test.

Who conducts certifications, dry gas changes, etc. of the I-8000 instrument?

__________________________________________________________________

When does an operator access card expire? ________________________________

__________________________________________________________________

Permits can be revoked for a violation of any section of the Ohio Administrative Code 3701-53 (deals with the Alcohol and Drug Testing program). T F

The instrument will enter standby mode if not used for more than _____ minutes.

To correct a keyboard entry error: ______________________________________

What happens if you enter an invalid PIN? ________________________________

__________________________________________________________________

What happens if RFI is detected? _______________________________________ 

__________________________________________________________________

What happens if an interferent is detected? ______________________________

__________________________________________________________________

If during the subject sample, PLEASE BLOW UNTIL TONE STOPS / R appears, what should you do? ________________________________