

## **Evidential Breath Alcohol Testing (EBAT) Program**

	An intoxilyzer is an instrument for estimating blood alcohol content (BAC) from a breath sample.
What is an intoxilyzer:	Results are considered evidential and thus admissible in court. These evidential
	intoxilyzer instruments are different from the hand held preliminary breath testing (PBT)
	instruments officers use during road side stops. Once an individual tests positive at a road side
	stop using the PBT, the evidential intoxilyzer is used, either by bringing the instrument to the driver
	or by bringing the driver to the instrument. The intoxilyzer is used to collect an official BAC reading
	that will be used as evidence in a DUI case.
	The intoxilyzers work by exposing breath expelled into a sample chamber to infrared light. An
	emitter produces a known amount of infrared light which passes through the sample chamber to
How does an	reach a sensor at the opposite end. Alcohol molecules are known to absorb a certain amount of
intoxilyzer	infrared radiation and so, if alcohol is in the sample chamber, a predictable proportion of the light
work:	will not reach the sensor. The machine compares the light sent with the light received in order to
	calculate an alcohol concentration. The more infrared radiation is absorbed, the more alcohol is in
	the breath sample.
· · · · · · · · · · · · · · · · · · ·	CDPHE validates the intoxilyzer instruments, issues them to law enforcement, and maintains
	and calibrates the instruments. There are 1-2 evidential intoxilyzer instruments in each law
	enforcement agency.
	CDPHE provides training to law enforcement on how to use the evidential intoxilyzer
	instruments, certifies law enforcement as operators and/or instructors, and certifies the law
	enforcement facilities that house the instruments.
CDPHE's Role:	In order to maintain the evidential intoxilyzer instruments and ensure that their results meet the
	standards necessary for evidence, and to ensure standardized training across the state, it is most
	efficient for the evidential intoxilyzer instruments in the state to be the same and to be managed
	centrally by the state lab. Accurate calibration of, and education on, multiple instruments would
	be difficult and increase the possibility for errors which could prevent the conviction of a drunk
	driver. Therefore, the Department replaces all the instruments at once to ensure uniformity and
	standardization.
	● The intoxilyzer 5000 was in use in Colorado from 1998-2012. The total cost to provide
History of Replacement:	intoxilyzers for Colorado was approximately \$1,094,500 in 1998.
	■ In fiscal year 2012 RFP TM-LSD121208 was issued to replace the intoxilyzer 5000 due to the
	increasing difficulty in locating parts, the increasing costs to maintain the instruments, and the
	need to use updated technology.
	■ RFP TM-LSD121208 was awarded to CMI, Inc in 2012 for \$2,000,000. Approximately \$1.7 million
	came from federal sources and an estimated \$300,000 came from state funding sources.
	• The lifespan of the intoxilyzer 9000 is anticipated to be 10 years before major replacement or
	updates will need to be necessary. The anticipated cost is \$2.1 million per program estimates.