

BREATH ALCOHOL TESTING / SFST OVERVIEW CLASS

8:30 AM to 9:00 AM
9:00 AM to 9:30 AM

Registration / Introduction Introduction to Ethanol

- Absorption, Distribution and Elimination of Alcohol
- Deep lung air (alveolar air)
- Henry's Law
- Widmark's equation
- Precision & Accuracy

9:30 AM to 10:30 AM

Overview of Breath Alcohol Testing

- History of breath alcohol testing
- Lung anatomy
- Infrared breath alcohol testers
- Fuel cell breath alcohol testers
- Observation / deprivation is most important phase
- Errors during rising BAC = False positive results
- Breath Temperature issue
- Retrograde extrapolation and time of driving
- Range of error in breath alcohol analysis

10:30 AM to 10:45 AM
10:45 AM to 12:15 PM

Break Overview Intoxilyzer 8000 Breath Testing Machine

- History of FDLE's Breath Alcohol Testing Program
- Intoxilyzer 8000's internal components
- Breath volume measurement problems
- Limitations of FDLE's Agency Inspection Program
- Software errors
- Intoxilyzer 8000 error codes

12:15 PM to 1:15 PM
1:15 PM to 2:45 PM

Lunch (on your own) Limitations of Breath Alcohol Testing

- Partition Ratio (breath vs. blood)
- Mouth piece false refusals
- Mouth Alcohol detectors don't always work
- Acid Reflux (GERD)
- Dentures
- Asthma and breath inhalers
- Mouth Breath Temperature
- Breathing patterns / Holding your breath
- Air Blank issue / Environmental concerns
- Blood Hematocrit errors
- Breath Tests are not specific for ethanol
- Alcohol absorptive phase = up 230% error in breath test
- Breath alcohol simulators = The weak link

2:45 PM to 3:00 PM
3:00 PM to 3:30 PM

Break Standardized Field Sobriety Testing (SFST)

- Limitations of SFST's
 - ADD / ADHD
 - Physical limitations
 - Impact of age
 - Environmental concerns (Wind, rain, cold, police lights, etc.)
 - Review of the current SFST forensic literature
- Vehicle in Motion Phase
 - 24 NHTSA Impaired Driving Clues
- Personal Contact Phase
 - Manifestations of alcohol consumption don't = impairment
 - Pre-exit interview techniques
- Pre-Arrest Screening Phase
 - HGN - Horizontal Gaze Nystagmus Test
 - WAT - Walk & Turn Test
 - OLS - One Leg Stand Test
 - Alternative Tests: ABC's, Number Countdown, Finger Count, Romberg Balance, Finger to Nose, Hand Pat.

3:30PM to 4:00 PM

Live Testing of Breath Machine & SFST's

- Live demonstration of the Intoxilyzer 8000 Breath Test Machine
 - Mouth Alcohol
 - Interfering substances
 - Breathing techniques
- Live demonstration of the SFST's
 - HGN - Horizontal Gaze Nystagmus Test
 - WAT - Walk & Turn Test
 - OLS - One Leg Stand Test

4:00 PM to 5:00 PM

DUI Trial Demonstration / Ethical Use of Forensic DUI Expert in trial

- Use of forensic breath alcohol & SFST studies in trial
- The DUI Expert Witnesses in trial
- Direct and Cross Exam during the DUI / DWI Trial