



# Session 1: Blood and Breath Alcohol Forensic Toxicology Certification Bootcamp

2024 IACT Workshop

**Location:** La Jolla, CA

**Date:** Thursday, April 25<sup>th</sup>, 2024

**Time:** 08:00 – 12:00 pm

**Workshop Chair:** Lucien Lockhart, M.S. Chemistry, D-ABFT-FA

**Target Audience:** Forensic practitioners of intermediate level of experience.

## **Abstract:**

As we work in the field of forensic toxicology, we all become subject matter experts. Our level of knowledge and skills places us in the forefront of our field, but often what we know is not clearly defined or understood or tested by the community, the clients, and the legal system. Successful completion of a certification process from an accredited certifying board identifies our knowledge, skill level, and expertise in the field of forensic toxicology. However, obtaining certification often comes at a personal expense in time and money, and the preparation process may still leave one unable to complete that certification. This boot camp focuses on supplementing your preparation so that you cover the topics outlined by the certification board. The bootcamp is split into two sessions. This session will introduce study techniques, habits, preparations, focus on the lab management aspects (accreditation bodies, security, QA/QC, and legal matters), and cover the fundamentals of volatile chemistry, breath alcohol, and blood alcohol. In addition, there are test-like review questions at the end of each session along with a discussion/Q&A. Let's make sure the time and money invested in the certification process is not wasted.

## **Learning Objectives:**

1. After completing this bootcamp, the learner will be able to better understand why certification is important to their job position and their laboratory, as well as the fundamentals of proper laboratory management.
2. After completing this bootcamp, the learner will have a firm foundation of the blood alcohol and breath alcohol basics, including property and structure of alcohols, breath testing and blood alcohol testing, and the differences in antemortem versus postmortem analysis.
3. After completing this bootcamp, the learner will be able to bolster their testimony as it relates to impairment caused by ethanol consumption.

**Course Specifics:** The course fee includes registration, all course materials, attendance certificate, and breaks. Attendees will be responsible for travel, lodging, and meal expenses.

## **Agenda**

08:00 – 09:30 am	Overview and Laboratory Management	Bradley & Lockhart
09:30 – 10:00 am	The Fundamentals – Alcohol Chemistry, Breath, and Blood Alcohol	Mendoza & Lockhart
10:00 – 10:15 am	Break	
10:15 - 12:00 pm	The Fundamentals – Alcohol Chemistry, Breath, and Blood Alcohol	Mendoza & Lockhart