

Class Outline/ 40 Hour Fingerprint Comparisons, the focus of this class is fingerprint identification, attendees will actually be trained on how to make fingerprint identifications.

Fingerprint identification, scientific basis/statistical analysis

Significant advances of the science of fingerprints a brief view of methodology of fingerprint comparisons.

The expert fingerprint witness

Legal aspects of fingerprint evidence

Analysis and standards in fingerprint identification

Comparison and identification of inked fingerprints

Comparison of Latent fingerprints

Latent print verification of identification via 2nd examiner

Correspondence with FBI

Facsimile transmission of fingerprint transmission

Classification of fingerprints via Henry Class System

NCIC Classification System

Types of patterns and their interpretation

Latent print development via chemical and physical methods

Laser development of fingerprints and body fluids

Advanced fingerprint comparisons of palm impressions

Edgeoscopy/poroscopy

1. Identification of individuals, a historic perspective
2. The scientific basis for fingerprint identification
 - Friction Skin..... A closer look
 - Fingerprint Characteristics
 - Statistical Analysis
 - Ridge structure to include poroscopy, edgeoscopy
 - Epidermis
3. Quality Control, value of quality inked impressions
 - 10 print cards, intelligence info associated with these cards
 - Criminal History Documentation
 - Alias/Fugitive from Justice,
 - Palm Impressions
 - How to take 10 print/major case inked impressions
4. Afis Technology and its impact and time cost payoff
 - Networking
 - NCIC 2000
5. Latent Prints
 - Theory of Transfer
 - Historical Perspective
 - Body Fluids/Chemical components exuded by friction skin
6. Patent Prints/Photography
7. The quality issue of black powder/brushes alternate powders
 - Tape/Latent lift cards verses photography
8. Chemical Development Scenarios
 - Iodine, Ninhydrin/NIN Analogs
 - DFO/ Secondary Treatments
 - Zinc/Cadium then liquid nitrogen immersion
 - Silver nitrate on unvarnished wood surfaces
9. Cyanoacrylate
 - Tanks
 - Vapor Wand
 - Vapor Pump to fume entire crime scenes and other new cyanoacrylate approaches
10. Dye Staining
 - Photography

11. Physical Developer
Small Particle Reagents
Sticky Side Tape
12. Tool Mark Recovery Methods
13. Latent Photography 1 to 1 adaptors etc.
14. Evaluation of recovered latent finger prints, (are they good enough?)
15. Understanding the security issues around the crime scene prior to processing. A look at typical trace and footprint evidence recovered from well trained departments.
16. Staying out of hot water before, during and after the trial.
17. Procedures protocol