

Course Outline

Course Objectives

The purpose of this course is to introduce the student to the fundamentals of triaging of evidence fired cartridge cases and fired bullets as well as test fired cartridge cases and test fired bullets in order to select suitable candidates for image capturing into IBIS® TRAX-HD3D™ systems. The course introduces the students to the basics of Forensic Firearms Examination and Identification techniques as well as the basics of Firearm and Ammunition history, manufacturing and development.

DAY 1

Firearms 101

Firearms Examination

- Firearms Safety and Operation
- Evidence Handling Protocols

Firearms Development

- Firearms Development
- Type of Firearms

Ammunition Development

- Ammunition Designs
- Historical Chronology of Ammunition
- Historical Classification of Ammunition

Basic Firearm Examination Techniques

- Safe handling of firearms
- Firearms Examination Procedure
- Test Firing Procedures and Protocols

DAY 2

TRIAGING - Identification Techniques for Fired Cartridge Cases

Comparison Microscope Examination

- History of the Comparison Microscope

Cartridge Case Examination

- History of Cartridge Case Examination
- Identification Marks on Cartridge Cases
- Cartridge Case Examination Techniques
- Comparison Microscope Examination of Fired Cartridge Cases

DAY 3

TRIAGING - Identification Techniques for Fired Bullets

Bullet Examination

- History of Fired Bullet Identification
- Barrel Manufacturing
- Identification Marks on Bullets
- Bullet Examination Techniques
- Comparison Microscope Examination of Bullets