

# 5 Day Cellular Technology and Forensics (CTF) Certification

## Instructor:

**Glenn Bard** is a retired Pennsylvania State Trooper First Class and a U.S. Veteran of Operation Desert Storm. In 1999 Glenn began Computer Crime Investigations for the Pennsylvania State Police and has since investigated crimes across the United States ranging from Child Pornography to Criminal Homicide. Glenn has also conducted forensic examinations for City, State and Federal Law Enforcement Agencies including the FBI, US Postal Inspectors, and I.C.E., as well as Foreign Governments.

Glenn has been certified as an expert in numerous states, the U.S. Virgin Islands and the United States Federal Court System in the areas of Digital Forensics, Cellular Technology and Computer Technology.

He has been a speaker for organizations of all sizes and types, both public and private, to include the American Academy of Forensic Sciences, World Security Congress, and hundreds of law enforcement agencies, law firms and universities.

Several of the cases Glenn has worked have received National coverage, to include Fox News, Dateline, the Associated Press, Yahoo!, the New York Times, and many more.

Glenn has received numerous awards during his military and police career, including Honorable Discharges from both the United States Army and the Pennsylvania State Police.

He developed, created and implemented certifications for two forensic software companies used by agencies around the world.

Glenn is the Chief Technical Officer for PATCtech, overseeing all Digital Forensic and Data Services. Glenn has acted as technical consultant and/or personally developed Computer Forensic Programs at multiple Colleges, to include Westmoreland County Community College where he was a Faculty Instructor prior to retiring.

### Legal and Liability Risk Management Institute

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Plainfield, IN 46168

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December 9, 10, 11, 12 & 13, 2024 • Columbus, Ohio



## Legal & Liability Risk Management Institute



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**Columbus Police Department**

Columbus, Ohio

James R. Alsup, *Director*

Training Seminar

# 5 Day Cellular Technology and Forensics (CTF) Certification

Instructor:

**Glenn Bard**, CISSP, EnCE, CHFI, A+, *Network+*, *Security+*, *AME*  
Pennsylvania State Trooper (Retired)



**December 9, 10, 11, 12 & 13, 2024**

Columbus, Ohio

Register On-Line At: [WWW.LLRMI.COM](http://WWW.LLRMI.COM)



# 5 Day Cellular Technology and Forensics (CTF) Certification

## Course Objectives:

### SECTION 1: Forensic Cell Phone Data Recovery

The primary objectives of this section are to familiarize the law enforcement officer and investigator with different cell phone data recovery solutions and practical techniques used in cell phone data analysis.

Primary Topics Covered in this section include:

#### Different Types of Cell Phones:

- Cover CDMA, GSM, LTE, VOLTE, 5GE and cellular phones and the differences, Discuss which companies use which type of technology,
- Discuss the new smart phones, such as the iPhone and Android and Using the internet to determine the wireless carrier for a cell phone.

**Cell Phone Forensics Utilities:** Demonstrate and allow for hands on application of several types of software and hardware to examine the contents of the phones for each type of cell phone technology. (i.e., iOS, Android and feature phones.) Many types of utilities will be covered ranging from free software to expensive forensic software packages.

**Cell Phone Seizure:** We will discuss the proper steps to seizing and storing a cell phone so that the data is protected.

**Cell Phone Resources on the Internet:** In this block we will discuss and explore many websites that focus on cell phone forensics.

**Wireless Carriers:** We will learn what type of information we can obtain from the wireless carrier that may help our examination easier and more effective.

**Legal Block and Case Law:** How to prepare a proper search warrant for the data stored on a cell phone, and current case law pertaining to cellular technology.

### SECTION 2: Cell Phone Technology

The purpose of this section is to expose the attendee to proficient and effective investigations utilizing available databases and cellular usage records.

The attendee will be trained on proven effective techniques to enhance their criminal investigation.

Everyone has heard about the prevalence of cell phones in criminal investigations. This technology exists and is currently being utilized across the United States to convict thousands of criminals. From homicides, fraud investigations, assaults to aggravated kidnappings, this course will demonstrate the basic concepts and methods to utilizing cellular records to prosecute criminals.

This course is specifically designed for police officers, investigators, fire investigators, detectives, criminal investigation personnel, special investigation units or any other individual to increase their knowledge and effectiveness in the recognition, use and display of information derived from background research and cellular data records.

#### Primary Topics Include:

- Types of cellular records available as a law enforcement official
- Methods to acquire cellular records
- Understanding cellular records
- Proven ways to display cellular records in a court of law
- Understanding the usage and manner in cellular tower records
- Software solutions that effectively display cellular records

#### CTF Certification Details

The PATCtech CTF Certification is a one-of-a-kind certification for law enforcement, private investigators, SIU's and computer specialists. CTF training and testing validates a user's ability to use cell phone records and cell phone forensic technologies in any type of investigation.

The PATCtech CTF Certification is valid for two (2) years beyond the completion date of your most recent CTF qualified training.

#### CTF Certification Testing

Test Based on the Cell Phone Technology and Forensic Data Recovery Content Covered During This Class. Details on testing procedures will be given during class. Training and successful completion of certification testing qualifies for CTF Certification and/or re-certification.

#### Note

It is **highly recommended**, yet not required, for students to bring a PC based laptop computer. A large portion of this class is hands on and anyone with out a laptop may not be able to participate in the hands on exercises.

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Cut Along Dotted Line

## 3 Ways to Register for a Seminar!

### Ways to Register

1. **Register Online:** WWW.LLRMI.COM



2. **Fax Form:** 317-386-8228

3. **Mail Form to:**

**Legal and Liability Risk Management**  
700 N. Carr Rd., # 595  
Plainfield, Indiana 46168

**Federal ID: 81-0692135**

If you have any questions please call

**317-386-8325**

Upon receiving your registration we will send an invoice to the department or agency.

Checks, Claim Forms, Purchase Orders should be made payable to: LLRMI

# Seminar Agenda 5 Day Cellular Technology and Forensics (CTF) Certification

December 9, 10, 11, 12 & 13, 2024 • Columbus, Ohio

## Monday, December 9, 2024

8:00 a.m.—8:30 a.m. **Registration**

8:30 a.m.—12:00 p.m. Identifying the Needs of Cellular Forensics  
What Can Be Obtained?  
Preserving the Phone

12:00 p.m.—1:00 p.m. **Lunch (On Your Own)**

1:00 p.m.—4:30 p.m. Preparing to Conduct the Forensic Extraction

## Tuesday, December 10, 2024

8:00 a.m.—12:00 p.m. Using Various Software to Extract Data From Phones

12:00 p.m.—1:00 p.m. **Lunch (On Your Own)**

1:00 p.m.—4:30 p.m. Hands-On Forensic Analysis of Cellular Phones

## Wednesday, December 11, 2024

8:00 a.m.—12:00 p.m. Continue Hands-On Forensic Analysis of Cellular Phones

12:00 p.m.—1:00 p.m. **Lunch (On Your Own)**

1:00 p.m.—4:30 p.m. Hands-On Class Practical

## Thursday, December 12, 2024

8:00 a.m.—12:00 p.m. Introduction to Cellular Technology and Terminology  
Identifying Cellular Providers  
What Can Be Obtained From the Providers  
Preparing the Legal Process

12:00 p.m.—1:00 p.m. **Lunch (On Your Own)**

1:00 p.m.—4:30 p.m. Understanding the Results  
Mapping the Results  
Identifying Locations  
Understanding the GPS

## Friday, December 13, 2024

8:00 a.m.—11:30 a.m. Class Practical  
Testing the Results and Recreating the Scenario  
Creating a Complete Forensic Report  
Testifying in Court  
CTF Certification Testing Procedures Given

11:30 a.m. **Certificate Presentation**

**Seminar Title:** 5 Day Cellular Technology and Forensics (CTF) Certification

**Instructor:** Glenn Bard

**Seminar Location:** Columbus Police Training Academy  
1000 North Hague Avenue  
Columbus, Ohio 43204

**When:** December 9, 10, 11, 12 & 13, 2024

**Registration Time:** 8:00 a.m. (December 9, 2024)

**Hotel Reservations:** Drury Inn & Suites Columbus/Grove City  
4109 Parkway Centre Drive  
Grove City, Ohio 43123  
1-800-325-0720  
\$122.00 King Bed (plus tax)

**Registration Fee** \$495.00 Includes 5 Day Cellular Technology and Forensics (CTF) Certification, **Printed Training Manual** and Certificate of Completion.

**Seminar ID**  
**#16638**

**Note:**  
To receive special room rates, please identify yourself with **Group Number: 10111384**

**Names of Attendees 1.** \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

**Agency** \_\_\_\_\_

**Invoice To Attn:** \_\_\_\_\_  
(Must Be Completed)

**Address** \_\_\_\_\_

**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_

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