

DVR Assessment & Video Recovery Training Course



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DVR Recovery Course - 3 Days - \$895

Who Should Attend: *This course is recommended for anyone who will be responsible for the recovery of digital video evidence from CCTV systems.*

This class will provide students with an overview of the multiple challenges and issues that may arise or should be considered when acquiring digital video evidence. It has been developed based on the Law Enforcement & Emergency Services Video Association (LEVA)'s "Best Practices for the Acquisition of Digital Multimedia Evidence", with consideration also given to various other industry related guidelines and best practices.

Students will perform evidentiary video recovery from several different DVRs using various methods and techniques, too include exporting the native files, copying of the originally recorded files, video capture, network connectivity & acquisition, and exporting. This 3-day course will also provide instruction on Ocean Systems latest solutions for DVR recovery and digital evidence management, too include Omnivore, the Omnivore Field Kit, and Ocean Systems' soon to be released digital evidence management solution.

Learning objectives:

- Be familiar with common technical and legal issues related to the acquisition and use of digital video evidence.
- Be able to quickly and accurately assess the various types of digital video recording devices used for CCTV systems
- Learn multiple methods of documenting a digital CCTV system recovery
- Understand the proper application and use of Ocean Systems' Omnivore and Omnivore Field Kit for DVR recovery
- Have hands-on experience acquiring digital video evidence via multiple methods, techniques, and mediums.
- Understand usage and application of LEVA's Best Practices for the Acquisition of Digital Multimedia Evidence

The learning environment consists of lectures, real world examples, and hands-on exercises.

Anyone completing this course will be provided a certificate of completion (worth 24 hrs. of Vendor Training) which can be applied towards a LEVA certification.

Agencies interested in hosting Ocean Systems training are encouraged to call us to learn more about how your agency can get a FREE seat in this class!

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Course Outline:

Day 1

- Digital Video Evidence Overview
 - Sources of Digital Video Evidence
 - Video Technology Fragmentation
 - Digital Video Basics – Frameworks, File Formats, Multimedia streams & Compression
 - Differences between traditional Computer Forensics & DCCTV Recovery
- Legal & SOP's
 - Legal Considerations
 - Consent vs. Search Warrant
 - Authentication
 - Originals vs. Copies
 - Standard Operating Procedures
- DCCTV Recording Systems
 - History of Video Technologies
 - Types of DCCTV Systems
 - DCCTV Cameras
- Assessment, Preservation & Documentation
 - System Assessment & Documentation
 - Physical & Logical Access
 - Controlling Access
 - Preventing Loss
 - Review of Typical Recovery Options
 - Review of Typical Media & Connections
 - Determine Best Method of Recovery
- Native File Recovery
 - Reviewing User Manuals
 - Documentation Review
 - Test Exports
 - Other Considerations

Day 2

- Omnivore & Uncompressed Screen Capture
 - Fundamentals of Uncompressed Screen Capture
 - What is Omnivore?
 - Setup & Use of Omnivore

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- Network Fundamentals for DCCTV Recovery
 - Computer Networking Primer
 - IPv4 Addressing
 - Network Ports
 - Web Server or Client Software?
 - Configuring Your Laptop to Connect to the DVR
- Integrity Verification
 - Chain of Evidence
 - Integrity Verification vs. Authentication
 - Cryptographic Hashing

Day 3

- Beyond the Basics
 - Storage Technologies
 - HDD, Partitions, RAIDs, SSDs, Hybrids, NAS
 - DCCTV Operating & File Systems
 - Hard Drive Duplication
 - Clone vs. Image
 - Write Blocking
- Recovery Toolkit
 - Recommended Toolkit contents
- Using the Omnivore Field Kit
 - Overview
 - Step-by-Step Review
 - Demonstration