



## EXPERIENCED PROFESSIONAL CERTIFICATE IN **Digital Investigations**

### Certificate Description

**This certificate provides professionals the opportunity to enhance technical and commercial understanding in Digital Investigations.**

**Digital Investigations I—ITDI 375**—This course will examine digital investigation tools, threats, and techniques. Topics may include procedures, steganography, operating systems, tool validation plans, and open source software.

**Outcomes:**

- Explain digital evidence collection procedures
- Demonstrate how to acquire digital evidence without causing alteration or damage to original data
- Analyze evidence from formatted media, deleted files, and unallocated space
- Develop reports for forensic evidence

**Digital Investigation II—ITDI 379**—During this course, students will examine digital investigation techniques for applications running for network operating systems.

**Outcomes:**

- Explain procedures for collection of digital evidence on networked systems
- Use advanced tools to analyze events in real-time
- Discuss issues related to live digital investigations

**Introduction to Cyber Crime & Digital Investigation—ITDI 372**—This course provides students with an introduction to the concepts and systems involved in digital investigations and cyber crime. The course discusses recognized incident response policies and procedures for collecting, preserving, analyzing, and reporting digital evidence, cyber crime history, and current and future threats.

**Outcomes:**

- Create professional technical reports
- Present report information appropriate for a client presentation or legal testimony
- Demonstrate appropriate use of technical information based on researched client knowledge level



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**Law & Ethics in Digital Investigations—ITDI 374**—During this course, students will examine digital crime and investigation laws at various levels of government. Students will also discuss ethical concerns related to digital forensic investigations, and types of digital crime.

**Outcomes:**

- Identify and examine types of digital crime
- Describe ethical issues in digital investigations
- Discuss state, national, and international laws related to digital investigations
- Identify and analyze legal issues related to digital investigations

**Principles in Electronic Discovery—ITDI 472**—This course is designed to provide students with the essential information related to electronic discovery. Discussions will focus on organizational electronic discovery needs and how digital investigators can fulfill those needs. Topics may include finding data collection, media restoration, file and email conversion, keyword and metadata searching, filtering, and classification and presentation of data.

**Outcomes:**

- Discuss the electronic discovery needs of an organization in relation to applicable laws and other requirements
- Select appropriate methodologies to search for keywords and metadata
- Apply various filtering methodologies to classify data
- Develop a presentation of electronic discovery data

**Network Investigations—ITDI 473**—During this course, students will examine forensic techniques for collection, preservation, analysis, and reporting of digital network evidence. Topics may include network traffic analysis, electronic mail, and Internet investigations.

**Outcomes:**

- Explain the acquisition process for digital evidence from a network.
- Analyze digital evidence from a network
- Develop reports for forensic evidence.



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**Global Investigations—ITDI 474**—This course discusses advanced topics in digital forensics related to the globalization of electronic data. International organization regulations, language barrier, rogue providers, and other topics will be covered in this course.

**Outcomes:**

- Explain the different discovery rules for United States and European Union
- Discuss the issues related to language barriers in digital investigations
- Identify key agencies involved in cyber crime investigations worldwide

**Wireless Network Investigations—ITDI 475**—This course will focus on wireless networks, vulnerabilities, exploitations, and investigations. The course will address the differences between personal computer investigations and network investigations and tools.

**Outcomes:**

- Explain the differences between wired and wireless network investigations
- Demonstrate use of wireless network investigation tools
- Identify key issues related to wireless network investigations