Certified Digital Forensics

Description:

The Certified Digital Forensics Examiner, C)DFE certification is designed to train Cyber Crime and Fraud Investigators. Students are taught electronic discovery and advanced investigation techniques. This course is essential to anyone encountering digital evidence while conducting an investigation.

Mile2's Certified Digital Forensics Examiner training teaches the methodology for conducting a computer forensic examination. Students will learn to use forensically sound investigative techniques in order to evaluate the scene, collect and document all relevant information, interview appropriate personnel, maintain chain-of-custody, and write a findings report.

Through the use of a risk-based approach, the C)DFE is able to implement and maintain cost-effective security controls that are closely aligned with both business and industry standards.

Annual Salary Potential $65,000 AVG/year

Key Course Information

Live Class Duration: 5 Days
CEUs: 40
Language: English
Class Formats Available:

Instructor Led

Self-Study

Live Virtual Training

Suggested Prerequisites:

- 1 YR experience in computers
- Mile2's C)SP course
- Mile2's Foundational Course Pack

Modules/Lessons

Module 1 – Computer Forensic Incidents
Module 2 – Investigative Theory
Module 3 – Investigative Process
Module 4 – Digital Acquisition and Analysis Tools
Module 5 – Disks and Storages
Module 6 – Live Acquisitions
Module 7 – Windows Forensics
Module 8 – Linux Forensics
Module 9 – Mac Forensics
Module 10 – Examination Protocols
Module 11 – Digital Evidence Protocols
Module 12 – Digital Evidence Presentation
Module 13 – Laboratory Protocols
Module 14 – Artifact Recovery
Module 15 – Advanced Search Strings
Module 16 – eDiscovery and ESI
Module 17 – Mobile Forensics
Module 18 – Incident Handling
Module 19 – Reporting

Labs

Lab 1 – Chain of Custody
Lab 2 – Identify Seized Evidences
Lab 3 – Devices Acquisition
Lab 4 – Memory Acquisition
Lab 5 – Prepare the Case Evidence
Lab 6 – Investigate the Acquired Evidence
Lab 7 – Prepare the Case Evidence
Lab 8 – Windows Event Logs Analysis
Lab 9 – Linux Primary Info Retrieval
Lab 10 – Investigate OSX Evidence
Lab 11 – Finding Clues
Lab 12 – Construct the Case Events
Lab 13 -Evidence found from a Seized Android Device
Lab 14 – Incident Response

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Certified Digital Forensics

Who Should Attend

- Virtualization Admins
- Cloud Security Officers
- CIO
- Virtualization and Cloud Auditors
- Virtualization and Cloud Compliance Officers

Upon Completion

Upon completion, Certified Digital Forensics Examiner students will be able to establish industry acceptable digital forensics standards with current best practices and policies. Students will also be prepared to competently take the C)DFE exam..

Accreditations

Exam Information

The Certified Digital Forensics Examiner exam is taken online through Mile2's Learning Management System and is accessible on you Mile2.com account. The exam will take approximately 2 hours and consist of 100 multiple choice questions.

A minimum grade of 70% is required for certification.

Re-Certification Requirements

All Mile2 certifications will be awarded a 3-year expiration date.

There are two requirements to maintain Mile2 certification:

1) Pass the most current version of the exam for your respective existing certification
2) Earn and submit 20 CEUs per year in your Mile2 account.

Course FAQ's

Question: Do I have to purchase a course to buy a certification exam?

Answer: No

Question: Do all Mile2 courses map to a role-based career path?

Answer: Yes. You can find the career path and other courses associated with it at www.mile2.com.

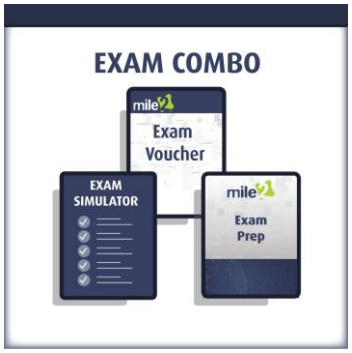
Question: Are all courses available as self-study courses?

Answer: Yes. There is however 1 exception. The Red Team vs Blue Team course is only available as a live class.

Question: Are Mile2 courses transferable/shareable?

Answer: No. The course materials, videos, and exams are not meant to be shared or transferred.

Course and Certification Learning Options



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DETAILED OUTLINE

Module 1 – Computer Forensics Incidents

- Origins of digital forensic science
- Differences between criminal and civil incidents
- Types of computer fraud incidents
- Internal and external threats
- Investigative challenges
- Industry Standards

Module 2 – Computer Forensic Investigative Theory

- Investigative Theory
- Investigative Concepts
- Behavioral evidence analysis (BEA) & Equivocal Forensic Analysis (EFA)

Module 3 – Computer Forensic Investigative Process

- Investigative Prerequisites
- Scene Management
- The digital forensics process
- ISO 27043

Module 4 – Digital Acquisition and Analysis Tools

- Acquisition Procedures
- Computer forensics field triage process model (CFFTPM)
- Acquisition Authentication
- Forensic Tools

Module 5 – Disks and Storages

- Disk OS and Filesystems
- Spinning Disks Forensics
- SSD Forensics
- Files Management
- Handling Damaged Drives

Module 6 – Live Acquisitions

- Live Acquisition
- Apple Acquisition
- Linux/UNIX Acquisition

Module 7 – Windows Forensics

- Windows Event Viewer Overview
- EVTX and EVT Logs
- Logs Analysis to Identify Breaches and Attacks

Module 8 - Linux Forensics

- Linux Artifacts
  - File System Structure
  - Basic Identifiers
  - Common Log Files

Module 9 – MAC Forensics

- OSX Artifacts
  - File System Structure
  - Core Storage
  - Default Apps
  - Other Artifacts

Module 10 – Forensic Examination Protocols

- Science Applied to Forensics
- Cardinal Rules
- Alpha 5
- The 20 Basic Steps of Forensics
- Scientific Working Group on Digital Evidence (SWGDE) Standard
- International Organization on Computer Evidence (IOCE) Standard

Module 11 – Digital Evidence Protocols

- Digital Evidence Categories
- Evidence Admissibility

Module 12 – Digital Evidence Presentation

- The Best Evidence Rule
- Hearsay
- Authenticity and Alteration

Module 13 – Computer Forensic Laboratory Protocols

- Forensics Lab Standard Operating Procedures
  - Quality Assurance
  - Quality Control
  - Peer Review
  - Annual Review
  - Deviations
  - Lab Intake

Module 14 – Specialized Artifact Recovery

- Forensics Workstation Prep
- Windows Components with Investigative Interest
- Files Containing Historical Information
- Web Forensics

Module 15 – Advanced Search Strings and File Signatures

- Search Strings
- RegEx
- File Signatures

Module 16 – eDiscovery and ESI

- Electronically Stored Information Rules
  - Legal System
  - Disclosure
  - Rule 37
  - eDiscovery Tools

Module 17 – Mobile Forensics

- Cellular Network
- Forensic Process
- Tools
- Paraben Forensics

Module 18 – Incident Handling

- What is an Incident?
- Incident Handling Steps
  - Preparation
  - Identification and Initial Response
  - Containment
  - Eradication
  - Recovery
  - Follow-up

Module 19 – Digital Forensics Reporting

- Report Sections and Content

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