

Ducara Info Solutions (P) Ltd.



C|USBFX

Certified USB Forensics
Expert

www.ducarainfo.com

WHY C|USBFX?

Earn expertise skills in **USB Forensics**

- C|USBFX will cover USB in detail with an emphasis on understanding USB Mass Storage devices (also known as flash drives or thumb drives).
- By the end of this course students will know how to sniff USB traffic using open source tools, be able to write-block USB mass storage devices using software and microcontroller-based hardware, be able to impersonate other USB devices, and understand how to make forensic duplicates of USB mass storage devices.
- Along the way students will also learn how to use microcontrollers and Udev rules.

What is the Objective?

Outcome Of this Course

- Learner will develop an understanding of the scientific principles of investigation and reconstruction, including evidence collection and preservation.
- Learner will receive intensive hands-on training in forensic laboratory methodologies with respect to the examination and analysis of evidence.
- Learner will develop written communication skills for presentation of their findings in accordance with established professional guidelines.
- Learner will develop an understanding of the importance of professionalism and ethical behavior in the forensic science community.



Target Audience

Who earns C|USBFX?

- People who would like to enter in digital forensics services workspace.
- Professionals who would like to learn latest forensics solutions.
- Professionals who would like to help organizations to resolve & tackle hacking incidents.
- Professionals or organizations who have been a victim of digital crime.
- Security professionals who would like to take their skills to next level.
- Technologies companies looking to have in-house digital forensics expertise.

Duration: 24Hrs



Course Outline

Topics Covered in Course



USB
Protocol



USB
Descriptors



Mass
Storage
Basics



USB Basics



USB
Device
classes



USB
Endpoints



Creating a
forensic
images



USB Write
blocking



Using udev
rules

Module 1

USB Basics

- USB Hardware
- USB Versions
- Connection Process
- USB Advantages & Disadvantages
- USB Evolution
- USB Capabilities
- USB Implementers Forum



Module 3

USB Endpoints

- Interrupt
- Bulk
- Isochronous
- Control

Module 2

USB Device classes

- Communications and CDC Control
- HID
- Mass storage
- MIDI Class
- Others Classes



Module 4

USB Protocol

- USB Packet Fields
- Types of USB packets
- Transactions
- Types of USB Transfer

Module 5

USB Descriptors

- Device Descriptors
- Interface Descriptors
- Configuration Descriptors
- Endpoint Descriptors
- String Descriptors

Module 6

Mass Storage Basics

- Benefits of mass storage
- Selecting a media type
- Hard drive
- Flash memory
- Multimedia card
- Presentation (SCSI hard drive)
- NAND flash limitations
- Communication

Module 7

Creating a forensic images

- Disk Imaging – USB Forensics
- Disk Image Format
- Evidence Information
- Evidence Analysis
- Deleted Files & Folders Recovery
- FTDI Vinculum II microcontroller
- Simple compact duplicator
- More user-friendly duplicator
- Adding an LCD screen

Module 8

USB Write blocking

- Write Blockers
- Software write blocker
- Hardware write blocker
- USB Impersonation

Module 9

Using Udev Rules

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Any Query?

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The Technology is changing every day and we at Ducara are committed to demonstrating values.
Embracing a digital transformation strategy which drive returns on IT security investment.