



# Digital Forensics Certified Mac Forensics Specialist (CMFS)



**Specialist-level course**

Cost: **£1,575.00 + VAT**

Duration: **3 days**

This specialist-level course is for experienced forensic investigators whose role requires them to expertly examine Apple devices, giving them knowledge and confidence in handling the data and forensic evidence in Mac OS X and iOS environments.

## COURSE OVERVIEW

Apple is becoming increasingly popular and as a consequence, computers running Mac OS X operating systems are increasingly becoming the subject of forensic investigation.

This three-day course concentrates on identifying what is, how can I find, extract, decode and interpret the data stored on an Apple device from a forensic practitioner's perspective using hands-on exercises to demonstrate and reinforce understanding.

## THE SKILLS YOU WILL LEARN

- You will learn the underlying data structures of Apple devices and the many forensic artefacts specific to Mac OS X and iOS.
- You will practice using real life examples to identify, find, extract, decode and interpret the data stored on an Apple device from a forensic practitioner's perspective

## KEY BENEFITS

This course will give you the opportunity to:

- Learn effective techniques for the identification and interpretation of forensic artefacts on OS X and iOS devices
- Understand Apple disk partitioning and develop confidence when identifying and isolating artefacts from Apple devices
- Improve your ability to respond effectively to a wider range of forensic incidents

## ACCREDITATIONS

CMFS has been assessed and accredited by IISP at Level 1: A6, B1, C1, F2 and Level 1+:F3, enabling you to build knowledge, competency and gain hands-on experience in the areas of the Institute's Skills Framework.

## WHO SHOULD ATTEND

Forensic practitioners, systems administrators and cyber investigators who want to extend their experience with Window-based systems to the Mac OS X and iOS environments.

*"An excellent course which gave a thorough overview of Mac Forensics, the HFS+ file system and important artefacts and their locations on the file system. The exercises supported the theory well and helped build on the course content. As a non-Mac user, I now feel a lot more confident working with Macs, not just for forensic analysis, but generally."*

**CMFS Delegate  
The Babraham  
Institute**

## Accreditations



ACCREDITED TRAINING

Covering the IISP skill areas of Level 1: A6, B1, C1 and F2; Level 1+: F3



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### PREREQUISITES

Completion of the 7Safe CFIP course is highly recommended. Otherwise you will need:

- Knowledge of the principles and guidelines surrounding forensic investigation
- Basic knowledge of data structures, e.g. binary and hexadecimal

### SYLLABUS

1. Apple device and OS development
2. Review of forensics methodology and best practice
3. Pro's and con's of using Windows based forensic software
4. Latest OS X features
5. Data structures - Plists & SQLite & Base64
6. Seizure and imaging
7. Disk Partitioning – APM & GPT
8. Apple File Systems
9. HFS+ in detail from a forensic perspective
10. File Vault - encryption
11. System Configuration
12. User Accounts
13. Log Files
14. Printing
15. Trash
16. Popular Apps – E-mail, iMessage, iWorks
17. Safari – Web browser
18. Time Machine
19. Introduction to iOS
20. Seizure & Imaging (iPhone / iPad)
21. Device specific artefacts
22. iOS device backups
23. Virtual machines
  - a. Identifying, extracting and investigating virtual machines such as Parallels and VMWare Fusion
24. OS X Versions
  - a. How file versioning works, where they are stored and their forensic value
25. Live data capture
  - a. How to capture live data from a machine running OS X



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[www.7safe.com](http://www.7safe.com)

7Safe, Cambridge Technology Centre,  
Melbourn, Herts, SG8 6DP United Kingdom  
tel: +44(0) 1763 285 285 [education@7safe.com](mailto:education@7safe.com)