The International Association of Computer Investigative Specialists

Mobile Device Examiner

IACIS Certified Mobile Device Examiner

Core Competencies

IACIS Mobile Device Examiner (MDE)/ IACIS Certified Mobile Device Examiner (ICMDE) Program

The MDE/ICMDE core competencies described in this document are a binding set of competencies that guide the training and certification programs to ensure that the skills and knowledge points are delivered within the training program are also the same set of standards evaluated within the certification program.

IACIS Mobile Device Examiner (MDE) / IACIS Certified Mobile Device Examiner (ICMDE) Core Competencies
There are six competency areas addressed in the MDE/ICMDE Program:

i. **Evidence Handling and Identification**
ii. **Mobile Device Technology**
iii. **Examination Methodologies**
iv. **Database Architecture**
v. **Examination of iOS Devices**
vi. **Examination of Android Devices**

i. Evidence Handling and Identification

a. Knowledge related to the importance of network isolation; its purpose, and options/methodologies available to ensure isolation.
b. Ability to accurately identify mobile devices and attached media including SIM and microSD cards.
c. Understand terminology common in mobile device forensics.
d. Knowledge of mobile device security and proper handling during evidence collection.
e. Knowledge of best practice in handling and preserving of mobile devices.

ii. Mobile Device Technology

a. Knowledge of the fundamental differences between traditional computer forensics and mobile device forensics.
b. Understanding of SIM card and eSIM handling and best practices.

iii. Examination Methodologies

a. Understanding of the various device acquisition methodologies to include the advantages, disadvantages and challenges related to each method.
b. Knowledge of best practices for examination of mobile devices.
c. Knowledge of the differences between logical, file system, and physical extractions.

iv. Database Architecture

a. Knowledge of the methodologies for viewing and interpreting data stored in an SQLite database.
b. Understanding of SQLite databases, to include overall structure of the database, including the WAL, SHM, and blob files.
c. Ability to explain how records are stored and how deleted records are handled.
d. Ability to properly decode date/timestamps.

v. Examination of iOS Devices

a. Ability to identify current iOS partition schemes.
b. Ability to distinguish between different versions of iOS and the different models of devices running iOS.
c. Understanding the data stores available within the file system, depending on various iOS acquisitions available.
d. Knowledge of the various types of iOS artifacts available and their relevance.
e. Ability to interpret and examine third party applications.
f. Ability to examine iOS devices including related backup data.

vi. Examination of Android Devices

a. Ability to identify current Android partition schemes.
b. Ability to distinguish between different versions of Android operating systems.
c. Understand the major files and how they relate to an examination.
d. Knowledge of the various types of Android artifacts available and the relevance of these artifacts.
e. Understanding of the Android Developer Bridge (ADB) to include common commands.
f. Ability to interpret and examine third-party applications.
g. Ability to examine Android related data, including backup data.

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