

**The International Association of Computer Investigative Specialists \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Advanced Mobile Device Forensics**

**Core Competencies**

IACIS Advanced Mobile Device Forensics (AMDF) Program

The AMDF core competencies described in this document are a binding set of competencies that guide the training programs to ensure that the skills and knowledge points are delivered within the training program.

**IACIS Advanced Mobile Device Forensics (AMDF) Core Competencies**

There are six competency areas addressed in the AMDF Program:

1. **Advanced understanding of Android and iOS file systems**
2. **Expertise in advanced database and protobuf analysis**
3. **Proficiency in investigating Android malware**
4. **Utilization of Python scripts for forensic examination**
5. **In-depth parsing of third-party applications**
6. **Deep understanding of data stores**
7. **Advanced understanding of Android and iOS file systems**
   1. This involves an in-depth comprehension of mobile operating systems, enabling a more thorough and efficient data retrieval and analysis.
8. **Expertise in advanced database and protobuf analysis**
   1. Ability to analyze and extract valuable information from different database systems.
   2. Ability to identify and analyze protobuf data structures on mobile devices.
9. **Proficiency in investigating Android malware**
   1. Becoming familiar in detecting, analyzing, and mitigating malware threats on Android devices.
10. **Utilization of Python scripts for forensic examination**
    1. Introduction to understanding Python scripts to automate the extraction of valuable artifacts from smartphones.
    2. Ability to identify valuable strings within the script that are targeted to certain artifacts.
11. **In-depth parsing of third-party applications**
    1. Expertise in dissecting third-party applications on mobile devices to extract and analyze valuable data.
12. **Deep understanding of data stores**
    1. Beyond the use of tools, this involves a thorough comprehension of how and where data is stored, enabling more comprehensive data recovery and analysis.
13. **Proficient in using commercial and open-source forensic tools**
    1. Ability to effectively use and switch between different commercial and open-source tools to enhance the investigation process.