Rusolut Data Recovery Expert (DRE) Training Course

This Certified Rusolut Training Program is designed for Digital Forensic Investigators, Cybersecurity Examiners, and Intelligence Operations Analysts who specialize in raw memory data recovery and analysis from a variety of devices, including Smartphones, Drones, IoT, SD cards, and raw NAND devices. The program focuses on advanced data recovery procedures for complex controllers and reverse engineering of ECC/BCH algorithms.

Delivered over five (5) days, this intensive training program builds on the skills learned in the Chip-Off Startup course and teaches students expert-level recovery techniques for unsupported devices and complex cases. Students will gain hands-on experience in NAND data recovery, advanced reverse engineering, and forensic analysis using Rusolut's Visual NAND Reconstructor (VNR) Reader and advanced data recovery Software.

Practical exercises, combined with live instruction and peer review, ensure that students acquire critical skills and methods that can be immediately applied to their casework.

Advanced Topics Include:

- Data recovery procedures from complex SanDisk controllers, such as SanDisk 4KB
- Data recovery from SM3281L controllers
- Data recovery from FC and DM controllers
- Data recovery methods from devices based on Alcor Micro Controllers
- Data recovery from devices with multiple memory chips
- Analysis and reverse engineering of ECC/BCH
- Analysis of complex service areas and the use of MASK
- Asynchronous page allocation
- Techniques for correctly unsoldering memory chips and preparing them
- Unsupported error correction codes and advanced methods of dump analysis
- Block rotation to recover partial file data or sectors
- Instruction includes daily guided labs and live case-based walkthroughs, preparing participants to reverse engineer and extract evidence from even the most challenging devices

What You Will Gain

- Rusolut ***Data Recovery Expert*** (DRE) Certification
- Have the skills to reverse-engineer devices and recover data from cases once thought to be impossible
- Proven, real-world techniques utilized by industry experts and forensic teams