



# REPAIR MODULE 3

*Master expert-level chip and NAND repair for maximum data recovery*

Part 3 of 3 | Progressive Mobile Device Repair Training Series

## COURSE DETAILS

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| <b>Duration:</b>       | 4.5 Days (Teaching Lab Based)                                                 |
| <b>Level:</b>          | Intermediate                                                                  |
| <b>Max Class Size:</b> | 8 Delegates (2 Trainers)                                                      |
| <b>Certification:</b>  | Reboot Repair Module 3 Certificate                                            |
| <b>Pre-requisites:</b> | Repair Modules 1 & 2 recommended;<br>basic soldering knowledge beneficial     |
| <b>Equipment:</b>      | All tools, equipment and practice devices<br>provided                         |
| <b>Location:</b>       | Hosted at our Reboot training facility at the<br>Electronics Group, Leeds, UK |

## WHY REPAIR MODULE 3?

As mobile phones and drones become central to criminal investigations, practitioners face a growing challenge: physically damaged or inaccessible devices that conventional software tools cannot reach. Drone PCBs present unique hardware obstacles — compact, multi-layered boards with epoxy-bonded or stacked memory chips — making chip-off forensics the only viable route to evidence.

Repair Module 3 takes forensic practitioners beyond software and into the hardware realm. Built around smartphone chip-off as its primary focus, the course also applies these techniques directly to drone PCBs. Delegates master the complete workflow: safe chip removal, cleaning and preparation, solder stencilling, raw memory reading, and PCB repair — with every technique designed to withstand scrutiny in a Court of Law.

## WHO WILL BENEFIT FROM THIS COURSE

Aimed at digital forensic practitioners encountering physically damaged mobile phones and drones where conventional extraction routes are unavailable.

- Digital forensic examiners handling physically damaged or locked mobile devices
- Military & defence practitioners recovering drone evidence
- Drone investigation specialists and UAS forensic examiners
- Repair Module 1 & 2 graduates developing advanced hardware skills

## PRE-COURSE REQUIREMENTS

Completion of Repair Modules 1 and 2 is strongly recommended, as this module builds directly on the board-level diagnostics and component handling skills from those programmes. Basic soldering experience is highly beneficial for those attending this course.

## WHAT WILL WE TEACH ON THIS COURSE

4.5 intensive days of classroom theory and hands-on lab work, progressing from chip fundamentals through to advanced PCB intervention for both mobile phones and drones:

- Memory chip architectures: NAND, eMMC, UFS — package types & identification
- Flash memory data recovery: dump files, page structures and ECC
- Non-epoxied BGA chip removal & reinstatement using hot-air rework stations
- Epoxied chip removal: chemical & thermal techniques for phones and drone PCBs
- Chip cleaning, preparation and re-balling with solder stencils
- Raw memory reading using specialist reader equipment (NAND & eMMC)
- Pad & trace repair: copper repair, trace bridging and pad rebuilding
- Stacked PCB handling (PoP): layer separation, reading & reassembly

## THE REPAIR MODULE SERIES

### • MODULE 1 — FOUNDATION

Core repair skills and essential techniques for common mobile devices. Hands-on practical tuition in battery, screen and data port repair and replacement.

### • MODULE 2 — INTERMEDIATE

Advanced board-level diagnosis, micro-soldering introduction and complex fault-finding across a wider range of device models.

### • MODULE 3 — INTERMEDIATE

Expert-level micro-soldering, NAND and chip-level repair techniques for maximum data recovery potential.

## CONTACT DETAILS & OTHER INFORMATION

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