

About the Class

Our **NEW 2-Day Cold Chip-Off Training** offers digital forensics professionals new techniques for removing memory, and other IC chips from digital devices using a “no heat” process. In this class you’ll explore the latest trends and tools for chip removal, with a focus on milling, polishing, and reballing.

Students will receive in-depth instruction, and first-hand experience in; the use of a Bantam Tools PCB Milling Machine, and UltraTec Polishing Machines, with a focus on practicing reballing techniques for reads, and will conclude with data acquisition.



Why No Heat Methods?

As chips with limited heat cycles, or low heat thresholds continue to be more common, the requirement to remove them in a safer way is essential to successful examinations.

As this class is meant to build upon our **Chip-Off 2.0 with Certification** training, it is recommended that students interested in this course have a good theoretical and practical understanding of chip preparation, handling, and removal techniques.

Students attending this class will receive an **Essential Kit for Reballing** and the handling of chips which includes:

- BGA Reballing Station Chip Holder Repair Base
- 4 Stencils (BGA 221, BGA529, BGA169/162, UFS BGA95)
- Lead Free SMT Low Heat Solder Paste (Sample Size)
- Aluminum Foil Tape (Sample Size)



Save Your Spot Today!

Please contact Avatu for pricing details.

All students receive
a 5% discount
on Teel Tech Kits!

Training Partner:

avatu

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Cold Chip-Off Forensics Featured Products

BANTAM MILLING MACHINE

This desktop PCB milling machine is a highly precise, compact, and easy-to-use desktop CNC mill for chip removal and milling / shaving away PCB and Epoxy to enable reading of memory chips from mobile devices.

What's in the Box

- Bantam Tools Desktop PCB Milling Machine
- External power supply
- Power cable
- USB cable
- Tool Set



TEEL TECHNOLOGIES REBALLER KIT

The Teel Technologies Reballer Kit is used to reball UFS chips and EMMC/EMCP chips.

The Teel Tech Reballer Kit includes:

- BGA reballing station Chip holder repair base
- 600 g Lead Free SMT low heat solder paste
- Aluminium Foil Tape
- 4 Stencils for BGA221, BGA529, BGA169/162, UFS BGA95



ULTRATEC POLISHERS

ULTRAPOL Basic lapping and polishing machine offers the build-quality required for high precision manual polishing. The system has an 8 inch replaceable polishing plate, faucet coolant and dual lap direction.

The **ULTRAPOL Manual Polishing** bench-top workstation for manual polishing provides a simple, low cost way to 'get things done' in the lab. Contact us for more information.



Training Partner:

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