MODULE 04 FIELD EXERCISE

Plan a Run, Salvage One Device

`TASK:` Use OSINT to plan a salvage run, then source one device, tear it down by the eight rules, read what it documents about itself, and test every part you pull.

`CONDITION:` Given your own area, the Unit 04 tool kit, the Module 02 multimeter, a laptop for the OSINT, and a phone.

`STANDARD:` Three or more sites mapped in Overpass Turbo and logged, the ALPR and camera exposure on your route checked, and a shopping list, timing, hazards, and an escape plan set down before you go; one device sourced and its exposure noted; the case opened by the eight rules and the interior photographed before any part comes out; one part identified through the device's own documentation, by an FCC-ID lookup or a service manual; every pull tested by Unit 07's methods and labeled; the keepers boxed, the rejects set aside, and the run logged with photographs.

Task 1 · Map the run

1. Before you go, map where discarded electronics turn up. In Overpass Turbo, at overpass-turbo.eu, run the salvage query over your area and list at least three real sites you can reach: recyclers, scrap yards, thrift outlets, and electronics or repair shops, each with its name and address.
2. Check the readers on your route. On DeFlock, or with the `man_made=surveillance` query, note the automated license-plate readers and cameras between you and each site.
3. Write the run down before you leave: a shopping list of the parts you are after, a day-and-night timing note, the site hazards, and your escape plan.

Task 2 · Source and open one device

1. Source one device of your choosing from a site you mapped. Keep it low-hazard, and note the exposure of the channel you used to get it.
2. If it is corded, cut the mains cord and bend the prongs so it can never be plugged in again.
3. Open the case by the eight rules: eyes protected, pry away from you, no forcing, and the rotary tool only for a case you have chosen to open. Discharge any capacitor on the board before your hands go near it: bleed it through a 100-ohm resistor on a low-voltage board or a 100-kilohm 1-watt resistor on a mains-side one, held in insulated pliers, then verify a couple of volts or less on the meter's highest DC range. Then photograph the inside while the parts are still in place, before you remove anything.

Task 3 · Read the documentation

1. Find the device's model number, and, if it transmits radio, its FCC ID on the label.
2. Type the FCC ID into the FCC Equipment Authorization Search, or a mirror, to find the internal photos and the layout. Search the model number with the words service manual for a schematic or a parts list.
3. Read the board's reference designators (`R` resistor, `C` capacitor, `Q` transistor, `U` integrated circuit, and the rest), and use the documentation to name one part before you pull it.

Task 4 · Test every pull

1. Test each part you pull by the Unit 07 methods and make a keep-or-reject call. A motor reads a low resistance that changes as the shaft turns, and it spins on 9 volts; count the wires to tell a DC motor (two), a servo (three), and a stepper (four, five, or six) apart, and map a stepper's coils by resistance.
2. A switch reads near zero closed and OL open on continuity; a fuse reads near zero good and OL blown; a diode reads a forward drop one way and OL the other, and the same low reading both ways is a short.
3. Judge a battery under a dummy load, not at rest. Read a suspect capacitor on a capacitance range, and reject a bulging or vented one.

Task 5 · Label, box, and log

1. Label every keeper with its donor and its test result. Box the good parts, and set the rejects aside.
2. Photograph the sourced device, the opened case, and the boxed parts for your log. Note anything you refused and why.

Task 6 · Field notes

Log the sites you mapped and the cameras on your route, the device you sourced and where, the part you named from the documentation, and the test result for each pull. Note anything you refused and why.

#	Task	Meter Setting	Expected	Your Reading	Pass / Fail
1	Run mapped	OSINT	3+ sites logged route cameras noted, plan set		
2	Teardown	Open + photo	cord cut, opened by the rules inside photographed first		
3	Documentation	Look up	FCC ID or service manual one part named		
4	Pulls tested	Ohm / diode	each part tested keep-or-reject call		
5	Box + log	Record	keepers labeled, boxed run photographed		