4 COURSE 4 · STUDENT HANDOUT

Advanced Workshop

Frontier mapping, complex build, debugging clinic, QA drill, teach-back, workflow playbook — in four hours.

DURATION 4 hr (2 breaks)
AUDIENCE Experienced builders
PREREQ 1 deployed tool

0:00–0:40	0:40–1:40	1:40–1:50	1:50–2:30	2:30–3:00	3:00–3:10	3:10–3:30	3:30–4:00
M1 Frontier Mapping 40 MIN · BUILD MAP	**M2 Complex Build** 60 MIN · BUILD	**Break** 10 MIN	**M3 Debugging Clinic** 40 MIN · PAIR	**M4 QA & Verification Drill** 30 MIN · TIMED	**Break** 10 MIN	**M5 Teach-Back** 20 MIN · BREAKOUTS	**M6 Workflow Playbook** 30 MIN · BUILD

BRING WITH YOU

Done before you walk in

- **At least one deployed tool** from Course 3 with three documented failure cases and one capability surprise.
- **Your unit's frontier map (current state).** You will rebuild it at full resolution in Module 1.
- **An AI-generated SOP excerpt of your own,** if you have one. We use a planted-error doc in Module 4 either way.
- **One concept you can teach in 3 minutes.** Pick from: centaur vs cyborg, frontier mapping, context-building, iterative refinement, verification protocols, the jagged frontier.
- **One real, recurring task** from your job — the candidate for your workflow playbook in Module 6.

KEY TERMS

The vocabulary you'll hear today

- ☐ **Frontier map (full)**
  A 5-row, 4-column matrix — *category · inside · outside · moving* — with at least one specific real task in every cell.
- ☐ **Mode-switching mid-build**
  Starting cyborg to discover the shape of the problem, then switching to centaur to verify before you sign anything.
- ☐ **Five QA protocols**
  Source verification · logical consistency · format compliance · numeric accuracy · substance vs style.
- ☐ **The 201 multiplier**
  You teach two Marines what you learned before your next PCS — that's how the unit's capability compounds.
- ☐ **Workflow playbook**
  One page, one recurring task, an AI-integrated workflow your section can run without you. The graduation deliverable.
- ☐ **Verification checklist**
  3–5 specific yes/no items that prove a workflow output is good before it ships. *If your playbook has none, it isn't done.*

EXERCISES IN CLASS

What you will do live — and what "done" looks like

M1 · Build your frontier map (15 min silent + 10 min share-out). Open a blank doc. Four columns: *category · inside · outside · moving*. Pick five categories that cover what your section actually does this month. Fill every cell with a specific, real task. *Done:* 5 rows, every cell filled, your "outside" column is not empty.

M2 · Complex build (60 min). Pick a problem one notch above what you shipped in Course 3 — multiple data sources, an edge case, or a tricky permission. Switch modes deliberately at least once. *Done:* a working tool, plus a one-line note on *where* you switched modes and *why*.

M3 · Debugging clinic (40 min, pair). Bring a real bug or a deliberate one. Your partner debugs by asking you what you'd tell the AI — not by reading your code for you. Swap. *Done:* the bug is fixed and you can both name the prompt that unlocked it.

M4 · QA drill — find the five errors (10 min silent + 10 debrief). A one-page AI-generated SOP excerpt drops in chat. There are **five planted errors**: two fabricated references, one contradictory timeline, one logic error, one format break. Find all five with the protocol number that caught each. *Done:* all five found in under 10 minutes; if you only find three, you skipped a protocol.

M5 · Teach-back (3 min each, breakouts). Use the template: *one-sentence definition · why it matters · one real example from your job · one common mistake · one takeaway.* Peers grade you on three things: could they explain it back, was the example concrete, do they know what to do differently tomorrow. *Done:* "yes" on all three.

M6 · Write your playbook (20 min silent). One page. Seven fields: *task · frequency & mode · 4–8 H/AI steps · verification checklist (3–5 items) · known frontier issues · time savings · junior development note.* Specific enough that a junior Marine could run it without you. *Done:* all seven fields filled; submit in chat by the timer.

> **ANCHOR PHRASE** You don't leave this room as a graduate. You leave as the person who teaches the next two Marines.

WHAT YOU'LL BE ABLE TO DO

By the end of the session

- Build a complete unit frontier map — not a sticky, a real reference.
- Switch modes mid-build on purpose, not by accident.
- Debug an AI-assisted build by asking the AI better questions.
- Run all five QA protocols on a single document in under ten minutes.
- Teach one EDD concept in three minutes with a concrete example from your job.
- Hand a junior Marine a one-page playbook that runs without you.

HOMEWORK

Date your map. Run your playbook. Teach two Marines.

- **Date your frontier map and share it back to your unit by EOW.** That's the unit-level deliverable.
- **Run your workflow playbook for real,** end-to-end, at least once before you teach it to anyone.
- **Pick the two Marines you owe forward.** Calendar the first teaching session before your next PCS — not after.
- **Reflect (one line each in chat):** the one thing you'll do differently next week · the 201 skill you felt weakest on today · who you'll teach next, and when.
- **Capstone candidates:** read the Course 6 page and confirm your proposal before Week 6.