

1) Self-Image ↔ Target Role Alignment

Definition & Scope

How closely your current professional self-image (what you believe you are good at, how you describe yourself, what you routinely do) matches the **next role** you want. Scope includes your narrative (bio, headline), behaviors (projects you choose, time allocation), artifacts (CV, portfolio, LinkedIn), and signals (language, metrics you highlight). It excludes compensation negotiations and company-specific interview mechanics.

Rationale & Impact

Alignment reduces “identity friction”—the gap between intent and signal—that quietly kills momentum. When aligned, you pick better projects, practice the right skills, tell coherent stories, and attract the right opportunities; when misaligned, you scatter effort, confuse reviewers, and stall.

- **Hiring clarity:** Clear fit signals → higher screen/shortlist rates.
- **Preparation efficiency:** Practice time maps to actual job tasks.
- **Motivation & resilience:** Identity-consistent goals are stickier.
- **Network pull:** Mentors and referrers recognize your “lane” faster.

If Fully misaligned

- **Reset the target:** Write a one-paragraph role spec (problems solved, users, stack/tools, success metrics).
- **Identity rewrite:** Draft a 1-sentence identity: “I am a {role} who {business outcome} using {tooling/domain}.” Put it atop CV/LinkedIn.
- **Artifact purge & rebuild:** Remove off-track keywords/projects; add a 2-project roadmap that mirrors day-in-the-life tasks of the role.
- **Environment design:** Block 5–10 hrs/week for role tasks; follow 3 experts; join 1 community; schedule weekly shadowing or code-along.
- **Proof loop (weekly):** Plan → Do (a micro-deliverable) → Publish (post/readme) → Feedback (mentor rubric) → Adjust.

If Partially aligned

- **Narrow the lane:** Choose one domain (e.g., “fraud risk” vs generic data). Update headline to “Aspiring {role} | {domain}”.
- **Bridge projects (2–4 weeks each):** Ship two mini case studies with business metric, method, outcome, and tradeoffs.
- **Vocabulary sync:** Mirror the job’s verbs and artifacts (e.g., “runbook, SLA, DAG, A/B uplift”) in your bullets and posts.
- **Signal consistency:** Align resume bullets, LinkedIn About, and top repo readme to the same story and metrics.

If Mostly aligned

- **Last-mile gap closure:** Identify 2 missing “must-have” experiences; simulate them (sandbox repo, mock ticket, or pro bono task).
- **Outcome emphasis:** Redraft bullets to show baseline → intervention → measurable delta (% , time saved, \$ impact).
- **Interview narrative polish:** Build 6–8 STAR/METRIC stories mapped to the role competencies; rehearse weekly with timed drills.
- **External validation:** Secure 2 endorsements/references that echo your target narrative.

If Fully aligned

- **Scale your signal:** Publish a monthly deep-dive; give a lightning talk; contribute to an open template/tool used in the role.
- **Teach/mentor:** Run a study circle or code review club—teaching reinforces identity and broadens referrals.
- **Opportunity funnel:** Maintain a live pipeline: roles tracked, referrals requested, artifacts tailored; review conversion monthly.
- **Drift guardrails:** Quarterly audit of time spent vs role tasks; prune activities that don't serve the next step.

Success Metrics & Signals

Track a mix of leading (skill/signal) and lagging (outcome) indicators.

- **Leading indicators**
 - **Asset Alignment Score (0–4):** Resume, LinkedIn, top repo, and last project each match the role's problems, tools, and metrics. Target ≥ 3.5 .
 - **Time Allocation Ratio:** $\geq 70\%$ of weekly learning/build time on role-specific tasks.
 - **Vocabulary Match Rate:** In your top artifacts, $\geq 80\%$ of keywords mirror 3 target JDs.
 - **Shipping Cadence:** ≥ 2 role-relevant artifacts/month (case studies, PRs, notebooks, demos).
 - **Mentor/Rubric Score:** $\geq 4/5$ on a role-competency rubric across 2 reviewers.
- **Lagging indicators**
 - **Screen → Interview rate:** % of applications yielding interviews; aim for $\geq 25\%$ with referrals, $\geq 10\%$ cold.
 - **Interview pass-through:** Progression across stages; target sequential $\geq 30\%$ per stage.
 - **Warm referrals:** ≥ 2 per month from practitioners in the target role.
 - **Stretch opportunities:** Count of role-like tasks assigned at work/school; target upward trend.
- **Qualitative signals**
 - Recruiter messages explicitly naming your target role.
 - Feedback paraphrases your identity sentence.
 - You naturally choose projects and language consistent with the role without prompting.

Capability Gaps → Precise Fixes

Definition & Scope

This insight classifies the **specific types of gaps** that slow your progress toward the next role, so you can pick the **right theory, practice, and resources**. Scope covers six categories: **Foundational knowledge, Tools proficiency, Mental models/frameworks, Domain knowledge, Communication & collaboration, Decision heuristics**. It focuses on practical, trainable skills and excludes company-specific bureaucracy or compensation topics.

Rationale & Impact

Labeling the right gap type prevents “spray-and-pray” learning. When you know *what kind* of gap you have, you choose better resources, practice the correct tasks, and improve faster.

- **Resource fit:** You study *the* concept/tool/model that fixes the bottleneck (not everything).
- **Faster pass-through:** Interview and on-job tasks map directly to the repaired skill.
- **Better compounding:** Clear gaps → focused reps → measurable gains you can showcase.
- **Team trust:** Communication and decision quality rise when the underlying gap is fixed.

1) Foundational knowledge

Signals: You can do recipes but stumble on “why”; confuse terms (variance vs bias); fragile under novel questions.

- **Quick wins (≤2 weeks):**
 - Build a **concept map** of 20–30 core ideas (definitions + 1-line example).
 - Do 30 mins/day **spaced retrieval** (flashcards; explain-out-loud rule).
- **Foundations (1–3 months):**
 - Work through one **canonical text/course** end-to-end; solve chapter problems by hand.
 - Write “**explain like I’m 12**” notes for 10 core topics.
- **Stretch (3–6 months):**
 - Teach a mini-workshop or publish **explainer posts**; field questions.
- **Practice loop:** Plan (topic set) → Do (problems) → Check (self-quiz) → Fix (gap notes) → Teach (post).
- **Resources:** Core textbook, high-quality MOOC, spaced-repetition app, problem sets.

2) Tools proficiency

Signals: Slow IDE/SQL/notebook work; copy-paste from StackOverflow; stuck on environment errors; missed shortcuts.

- **Quick wins (≤2 weeks):**
 - Pick **one tool** and complete a **task ladder** (10 tiny tasks → 1 mini project).
 - Learn 15 shortcuts/macros; set a **one-command dev env** script.
- **Foundations (1–3 months):**
 - Build **two reproducible projects** (clean repo, README, makefile, tests).
 - Pair once/week with a stronger peer; keep a **snippets library**.
- **Stretch (3–6 months):**
 - Contribute a small **plugin/PR** or automate a recurring workflow at work.
- **Practice loop:** Plan (workflow) → Timebox → Record blockers → Write mini-fix → Repeat.
- **Resources:** Official docs, tutorial repo with tests, keyboard-shortcut cheatsheet, pair-programming.

3) Mental models / frameworks

Signals: You jump to solutions; weak problem framing; can’t structure trade-offs; answers meander in interviews.

- **Quick wins (≤2 weeks):**
 - Adopt **one framework** per task type (e.g., STAR for stories; OODA for debugging; ICE/RICE for prioritization).
 - Create 3 **checklists** (problem framing, experiment design, post-mortems).
- **Foundations (1–3 months):**
 - Write **decision memos** weekly (Problem → Options → Criteria → Choice → Risks).
 - Rehearse **8 core interview stories** mapped to competencies.
- **Stretch (3–6 months):**
 - Facilitate a **design review** or **retro** using your framework; iterate from feedback.
- **Practice loop:** Pick framework → Apply on real task → Compare vs checklist → Adjust.
- **Resources:** Framework handbooks, decision-journal template, interview story bank.

4) Domain knowledge

Signals: You know the math/code but not the **business**, users, or constraints; metrics chosen don’t match reality.

- **Quick wins (≤2 weeks):**
 - Read 5 **domain primers** and 3 **public post-mortems/case studies**.
 - Build a **domain glossary** (20–40 terms) with examples.
- **Foundations (1–3 months):**
 - Rework a prior project as a **domain case** (define users, KPI, constraints, baselines).
 - Interview 2–3 practitioners; shadow a relevant workflow if possible.
- **Stretch (3–6 months):**

- Ship a **mini product/analysis** that moves a real domain metric (even pro bono).
- **Practice loop:** Research → Model the system → Build small artifact → Get domain feedback → Iterate.
- **Resources:** Industry reports, internal wiki/PRDs, expert interviews, domain Slack/communities.

5) Communication & collaboration skills

Signals: Reviewers say “unclear/too long”; PRs bounce; meeting time overruns; conflict lingers; stakeholders disengage.

- **Quick wins (≤2 weeks):**
 - Use **BLUF** (Bottom Line Up Front) in emails/updates; **one-slide** message discipline.
 - Practice **listen**→**summarize**→**confirm** in meetings; timeboxed agendas.
- **Foundations (1–3 months):**
 - Weekly **demo cadence**; adopt a **status template** (Goal → Progress → Blockers → Next).
 - Role-play feedback and negotiation; learn **non-violent communication** basics.
- **Stretch (3–6 months):**
 - Lead a cross-function task; resolve one conflict to a written agreement.
- **Practice loop:** Draft → Deliver → Record/observe → Collect notes → Adjust phrasing/structure.
- **Resources:** Writing guides (BLUF, Pyramid Principle), meeting facilitation playbook, feedback scripts.

6) Decision heuristics

Signals: Analysis paralysis; inconsistent choices; scope creep; “we’ll see” instead of clear calls; regrets post-decision.

- **Quick wins (≤2 weeks):**
 - Adopt **default heuristics**: *Max expected value, Reversible? Decide fast, If blocked, run a 48-hour spike.*
 - Set **guardrails**: timebox decisions; define “stop rules” (what evidence ends the search).
- **Foundations (1–3 months):**
 - Keep a **decision journal** (Context → Options → Criteria → Chosen → Predicted outcome). Review monthly.
 - Practice **premortems** and **postmortems** on key calls.
- **Stretch (3–6 months):**
 - Build a **playbook** of 10 recurring decisions with pre-agreed heuristics for your team.
- **Practice loop:** Decide → Log → Review later vs outcome → Update heuristic.
- **Resources:** Decision-making books/notes, premortem templates, simple scoring/ranking sheets.

Success Metrics & Signals

Use **leading** (skill signals), **lagging** (outcomes), and **qualitative** markers. Set a **6–8 week target** per selected gap.

Leading indicators (weekly)

- **Foundations:** quiz accuracy ≥80% on targeted concepts; 2+ topics added to concept map; 3+ spaced-repetition sessions.
- **Tools:** time-to-complete standard task ↓ 30–50%; zero “environment drift” incidents; 2 repo utilities added.
- **Mental models:** each major task attaches a chosen framework; 1 decision memo/week; 6–8 refined interview stories.
- **Domain:** 15+ glossary terms used correctly in artifacts; 1 case rewrite; 1 practitioner review.
- **Communication/collab:** BLUF adoption in all updates; meeting overrun <10%; stakeholder satisfaction ≥4/5.
- **Decision heuristics:** ≥3 logged decisions/week with predicted outcomes; ≤1 unbounded analysis episode.

Lagging indicators (monthly/quarterly)

- **Hiring:** screen→interview rate and stage pass-through trending up (aim +20–30% after 8 weeks).
- **Delivery:** cycle time ↓; rework/rollbacks ↓; merged PRs or shipped analyses ↑.

- **Impact:** at least one **domain KPI moved** (e.g., latency, CSAT, uplift, cost saved).

Qualitative signals

- Reviewers echo your **clarity** and **structure** (“clean problem framing,” “crisp trade-offs”).
- Stakeholders request **you** to lead similar work again.
- Fewer “what do you mean?” moments; more “that’s exactly it.”

Target example (8 weeks): Close 2 gap types; reach $\geq 4/5$ rubric score in those areas; improve interview pass-through by 25%; cut a standard task time by 40%.

Decision Stalls → Choice Architecture

Definition & Scope

How frequently **choice overload** or **analysis paralysis** keeps you from committing to a clear path. This covers personal decisions that affect skill-building and career momentum (e.g., which course, project, stack, role focus), and the **mechanisms to reduce friction**: defaults, timeboxes, heuristics, and small experiments. It excludes external blockers (e.g., waiting on approvals) unless they trigger your indecision.

Rationale & Impact

Stalls silently burn cycles. Without commitment, you scatter effort, miss compounding practice, and signal uncertainty to reviewers and teammates. A lightweight **choice architecture**—defaults, decision thresholds, and reversible tests—shrinks decision latency, concentrates reps on the right path, and raises throughput (more finished artifacts, clearer narrative). Net effect: faster skill growth, stronger portfolio coherence, and better interview pass-through.

If you answered Never

- **Guard against overconfidence:** Add a **post-decision check** (Did we define success? Did we ignore key risks?).
- **Tiny safety rails:** Keep a **reversible vs. irreversible** check; sleep on irreversible calls ≥ 24 h.
- **Calibration:** Maintain a **decision journal** (choice, criteria, predicted outcome). Review monthly for blind spots.

If you answered Rarely

- **Light defaults:** Pre-pick a **default stack/course/path** you follow unless new evidence surpasses a threshold.
- **Timeboxing:** Give routine choices **15–30 min**, then decide; log what information would’ve changed the call.
- **Short “spikes”:** When unsure, run a **48-hour experiment** (prototype, mini-module) then commit.

If you answered Sometimes

- **Two-good-options rule:** Narrow to **max 2** viable options; write a 1-page **decision memo** (Problem → Options → Criteria → Choice → Risks).
- **Decision thresholds:** Define **“good enough”** (e.g., meets 3/5 must-haves). Decide when threshold is met.
- **Reversibility bias:** If reversible, **decide fast** and test; if not, extend research by a fixed window (e.g., +48h) then commit.
- **Premortem & stop-rules:** List how the choice could fail; set **stop conditions** that trigger a pivot.

If you answered Often

- **WIP limits:** Cap yourself at **1 active path** per skill stream (e.g., 1 course, 1 project); park others on a backlog.

- **Commitment device:** Make a public **two-week commitment** (scope, deliverables, demo date).
- **Defaults with override:** "If undecided by Friday 5pm, follow default A." Overrides require a brief memo.
- **Weekly decision block:** Calendar a **60-min** slot to clear queued choices using a **scorecard** (criteria 1–5).
- **Mentor checkpoint:** Review the memo + scorecard with a peer for fast external validation.

If you answered Almost always

- **Option freeze:** Reduce to **two** options; ban new inputs until after a 7-day test.
- **Algorithmic choice:** Use a **simple scoring model** (weight criteria, auto-pick winner); commit to the algorithm's result.
- **Minimum Viable Decision (MVD):** Define the **smallest, 1-week commitment** that tests the core assumption; ship it before revisiting.
- **Environment design:** Remove rabbit holes (limit tabs/resources); enforce **deadline + default** combo.
- **Support:** If stalls stem from stress/burnout, add **rest blocks** and, if needed, speak with a mentor/coach to rebuild decision confidence.

Universal practice loop: Decide → Log (criteria, reversibility, expected outcome) → Act (timeboxed test) → Review vs reality → Update heuristic.

Success Metrics & Signals

Track weekly **leading indicators** (behavior change), monthly **lagging outcomes**, and **qualitative** cues.

Leading (weekly)

- **Decision latency:** Median time from "need to choose" → "committed" ↓ to **≤48 hours** (reversible) and **≤7 days** (irreversible).
- **Throughput:** **Committed decisions/week** **≥3** (small) or **≥1** (major).
- **Adherence:** % choices made with a **timebox + default + memo** **≥80%**.
- **Experiment cadence:** **1–2 MVDs/week** shipped for uncertain areas.
- **WIP discipline:** **≥90%** of weeks with **WIP ≤1** per stream.

Lagging (monthly/quarterly)

- **Completion rate:** % of started learning/projects finished ↑ (target **+25–40%**).
- **Cycle time:** Start→Demo time ↓ **30–50%**.
- **Portfolio output:** Net **+2–4 shipped artifacts/month** (case studies, PRs, demos).
- **Interview funnel:** Screen→interview and stage pass-through **+15–30%** after 6–8 weeks of discipline.

Qualitative signals

- Reviewers describe your updates as **decisive and focused**.
- Fewer "circling" discussions; more **clear next steps** and dates.
- You feel **less cognitive drag**, and your language shifts from "maybe" to **"decided → executing."**

Learning Loop Components → Close the Gaps

Definition & Scope

This insight checks whether you've assembled the essential parts of a **learn → practice → feedback** engine for your target role. Scope includes five components that turn effort into compounding skill: **Curriculum/sequence, Weekly plan, Milestones/rubrics, Feedback channel, Reflection log**. It focuses on personal upskilling and portfolio-building workflows, not employer-specific processes or compensation topics.

Rationale & Impact

When any link in the loop is missing, progress stalls: you study the wrong things (no curriculum), drift week-to-week (no plan), can't tell if "done" is good (no rubric), improve slowly (no feedback), and repeat mistakes (no reflection).

Completing the loop:

- **Raises throughput:** more finished, role-relevant artifacts per month.
- **Improves quality:** explicit rubrics turn "vague good" into repeatable excellence.
- **Speeds iteration:** fast feedback shrinks cycles and prevents blind spots.
- **Builds narrative:** consistent outputs aligned to a sequence signal clear fit in interviews.

Curriculum / Sequence

Signals of a gap: You hop between random tutorials; can't state the next 3 topics; projects don't build on each other.

- **Quick wins:**
 - Draft a **1-page syllabus**: 6–8 modules sequenced by dependency (e.g., Data→Metrics→Model→Deploy).
 - Pull **3 job descriptions**; extract shared competencies; ensure each appears in your sequence.
 - Define **two anchor projects** that recur across modules (same domain, increasing depth).
- **Foundations:**
 - Convert the syllabus into **module cards** (objective, resources, exercise, checkpoint).
 - Add **prereq checks** and **capstones** (business metric, constraints, trade-offs).
- **Stretch:**
 - Version the syllabus (v1, v2) and run **cohorts** with peers; keep a change log.

Weekly Plan

Signals of a gap: Reactive weeks; unfinished starts; no timeboxed deep work.

- **Quick wins:**
 - 30-min **Sunday plan**: pick 1 module, 1 project task, 1 assessment; **WIP ≤ 1** per stream.
 - Block **2×90-min deep work** slots; set **default study hours** (e.g., Mon/Wed 7–8:30pm).
- **Foundations:**
 - Maintain a **two-tier backlog** (Now / Next) in a simple Kanban.
 - Add **demo day** (Fri): ship something reviewable every week.
- **Stretch:**
 - Pair with an **accountability buddy**; publish a tiny **burn chart** of hours vs output.

Milestones / Rubrics

Signals of a gap: "Done" is fuzzy; you can't self-grade; reviewers disagree on quality.

- **Quick wins:**
 - Create **3 monthly milestones** with acceptance criteria (e.g., "ETL job with tests & README").
 - Draft a **5-level rubric** (1=novice...5=ready) for 4–6 competencies (problem framing, code quality, metrics, comms).
- **Foundations:**
 - Map **role competencies** → **rubric rows**; attach a **checkpoint** to each module.
 - **Calibrate** by scoring 1 exemplar repo and 1 poor repo together with a mentor/peer.
- **Stretch:**
 - Add **auto checks** (tests, lint, CI) tied to rubric items for repeatability.

Feedback Channel

Signals of a gap: "Looks fine?"; PRs linger; you're not sure what to improve first.

- **Quick wins:**
 - Establish two channels: **async** (GitHub/Docs comments with a request template: context, goal, rubric rows) and **sync** (weekly 30-min review).

- Recruit **2 reviewers** (peer + practitioner) and agree on **response SLAs** (e.g., 72h).
- **Foundations:**
 - Rotate reviewers; keep a **feedback backlog** prioritized by impact; close the loop with **before/after** diffs.
 - Do **live demos** biweekly; collect structured feedback on 3 rubric rows.
- **Stretch:**
 - Contribute small **OSS PRs** or join a **community review group** to diversify perspectives.

Reflection Log

Signals of a gap: Repeating errors; can't remember what worked; scattered notes.

- **Quick wins:**
 - Start a **5-minute daily log**: Plan → Done → New learning → Blocker → Next step (one line each).
 - Tag entries with rubric rows (e.g., [framing], [metrics]) for trend spotting.
- **Foundations:**
 - Weekly **after-action review**: What to **Keep / Drop / Try**; convert insights into **checklists**.
 - Link log to **decision journal** (assumptions → outcomes) for better heuristics.
- **Stretch:**
 - Publish a **monthly retrospective**; turn stable lessons into **templates** (README, experiment plan, briefing deck).

None of these

Signals: You restart often; little to show despite hours spent.

- **48-hour bootstrap:**
 - **Day 1 (AM):** Draft the **1-page syllabus**; **(PM):** Build the **weekly plan** and first milestone+rubric.
 - **Day 2 (AM):** Set up **feedback** (2 reviewers + template); **(PM):** Ship a **first micro-artifact** and log your first reflection.
 - Commit to **4 weeks** of the loop before any structural change.

Success Metrics & Signals

Track **leading** (behavioral) and **lagging** (outcome) indicators; review weekly and monthly.

Leading (weekly)

- **Plan adherence:** ≥80% of planned deep-work blocks executed; **WIP ≤ 1** per stream.
- **Rubric usage:** Every shipped artifact tagged to **≥3 rubric rows**; rubric scored by you + one reviewer.
- **Feedback cadence:** ≥1 structured **feedback cycle/week** with SLA met.
- **Reflection discipline:** **5+ log entries/week** and 1 weekly K/D/T review.
- **Sequence progress:** ≥1 module checkpoint cleared/week.

Lagging (monthly/quarterly)

- **Throughput:** **+2–4 reviewable artifacts/month** (case study, PR, notebook, demo).
- **Quality:** Average rubric score **+1 level** over 8 weeks on 3 priority rows.
- **Cycle time:** Start→Demo time ↓ **30–50%**.
- **External validation:** More specific, higher-quality reviewer comments; **referrals/endorsements** referencing rubric strengths.
- **Hiring funnel:** Screen→interview and stage pass-through **+15–30%** after 6–8 weeks.

Qualitative signals

- Updates read as **crisp and structured**; reviewers comment on clarity rather than “what is this?”.
- Fewer surprises; more **predictable demos**.
- You feel **in control** of progress and can explain **why** a piece is “done”.

Bottlenecks → Restore Flow

Definition & Scope

This insight identifies the **process bottlenecks** that create waste and cognitive load in your learn→build→ship loop. Scope includes seven categories you can directly influence: **Unclear SOPs, Context switching, Tool fragmentation, Rework/redo, Waiting on others, Lack of templates, Other (custom)**. It focuses on lightweight operational fixes (clarity, sequencing, guardrails, automation), not on compensation or org politics.

Rationale & Impact

Unremoved bottlenecks turn effort into trash: starts without finishes, shallow focus, and work that bounces in review. Targeted process interventions **shorten cycle time, reduce error/rework**, and **protect deep work**, which compounds into more shipped artifacts, cleaner interviews (you can explain your system), and steadier momentum.

Unclear SOPs (Standard Operating Procedures)

Signals: “How do we do this again?”, inconsistent outputs, repeated DM questions.

- **Quick wins:** One-page **SOP card** per recurring task: *Owner • Trigger • Inputs • 5–9 steps • Definition of Done • Checklist*. Pin it in the repo.
- **Foundations:** Convert to versioned **runbooks** with examples; add **Definition of Ready/Done** to tickets; create **RACI** for approvals.
- **Stretch:** Automate steps (scripts/CI), add **quality gates** (lint/tests), run **quarterly SOP audits**.

Context Switching

Signals: Many parallel tabs/tasks; frequent “where was I?”; shallow progress.

- **Quick wins:** **WIP ≤1** per stream; **90-min deep-work blocks**; mute noncritical alerts; batch comms twice/day; “parking lot” note for ideas.
- **Foundations:** Team **WIP limits** on Kanban; **office hours** for help requests; standard **response SLAs**.
- **Stretch:** **Meeting-light days** for makers; team-wide focus hours; quarterly calendar purge.

Tool Fragmentation

Signals: Same info scattered in chat/docs/spreadsheets; duplicate truth; spend time hunting links.

- **Quick wins:** Pick a **single source of truth** (SOT) for roadmap, docs, and code; define a **golden path** toolchain; add cross-links.
- **Foundations:** Light **integrations/automations** (issue ↔ PR ↔ docs); shared **starter repo** (lint/tests/CI) and shared settings.
- **Stretch:** Consolidate platforms; build an **internal template kit/CLI** to scaffold projects consistently.

Rework / Redo

Signals: “Not what we meant,” many review cycles, late scope changes.

- **Quick wins:** **Pre-brief** with acceptance criteria before building; add **PR/analysis templates** (context, goal, DOD); **test-first** for risky parts.
- **Foundations:** **Design checkpoints** (15-min early reviews), stable **branching strategy**, **feature flags** to ship small.
- **Stretch:** CI **quality gates** (tests/coverage/lint); **experiment design** templates; retro the top 3 rework causes quarterly.

Waiting on Others

Signals: Blocked tickets; vague dependency owners; “pending approval” stalls.

- **Quick wins:** Map **critical path & owners**; standard **request form** with SLA; default decision rule (“no response by Fri → proceed with A”).
- **Foundations:** **Service catalog** (who does what, how to request), weekly **dependency stand-up**, **self-serve** data/docs where safe.
- **Stretch:** **Cross-train** to reduce single-points; create **stubs/mocks** so work continues without the dependency.

Lack of Templates

Signals: Reinventing docs; uneven quality; slow starting.

- **Quick wins:** Create 5 essentials: **Brief/PRD, Experiment Plan, Status Update, README, Retro**—each with a mini-rubric.
- **Foundations:** Central **template library**; enforce via **repo scaffolds**; teach “how to use” with examples.
- **Stretch:** **Auto-inject** templates on new tickets/repos; maintain **versioned templates** with changelogs.

Other (custom bottleneck)

Signals: Doesn’t fit above; recurring friction.

- **Diagnosis:** **Value-stream map** one recent task (Idea → Done), **time audit** one week, run **5 Whys** to find the root.
- **Intervention:** Choose the smallest **policy/tool/checklist** that removes the root cause; review in 2 weeks.

Universal practice loop: Identify bottleneck → Apply smallest fix → Ship one artifact using the fix → Measure → Keep if ROI > 0, revise if not.

Success Metrics & Signals

Track **leading (weekly behavior)** and **lagging (monthly outcomes)** plus **qualitative** cues. Set an 8-week window.

Leading (weekly)

- **WIP discipline:** ≥80% of weeks with **WIP ≤1** per stream.
- **Plan adherence:** ≥75% of deep-work blocks executed.
- **SOP coverage:** % recurring tasks with an SOP/runbook ≥**70%**, trending upward.
- **Template usage:** ≥90% of PRs/analyses use the standard template.
- **Rework ratio:** Re-opened tickets / total tickets ↓ **30–50%** from baseline.
- **Blocker latency:** Median “blocked” time per item ↓ **40%**.
- **Context switches:** Self-reported switches/day ↓ week over week.

Lagging (monthly/quarterly)

- **Cycle time:** Start→Demo ↓ **30–50%**.
- **Throughput:** **+2–4 shipped artifacts/month** (case studies, PRs, demos).
- **Quality:** Average review iterations ↓, first-pass accept rate ↑.
- **Dependency lead time:** Median wait for approvals/data ↓.
- **Tool count per workflow:** Reduced to the **golden path** set without information loss.

Qualitative signals

- Fewer “what’s the status/how do we do this?” pings; more **self-serve clarity**.
- Reviews focus on **substance**, not missing context.
- You feel **calmer focus** and can explain *how* your system prevents thrash.

Learning Modes → Bias for Retention

Definition & Scope

This insight identifies the **study modalities that stick best for you** so we can **weight resources and schedules** toward what actually drives retention and transfer. Scope includes seven modes—**Reading, Videos, Audio/podcasts, Hands-on practice, Teaching/explaining, Visual diagrams, Worked examples**—and how to **combine** them by learning stage (first-pass understanding → retention → performance). It excludes time/availability constraints and employer-specific training rules.

Rationale & Impact

When the format fits your brain, you learn **faster, forget less**, and **apply more**:

- **Efficiency:** Fewer hours wasted on passive consumption; more high-yield reps.
- **Retention:** Leverages testing effect, self-explanation, and dual coding for durable memory.
- **Transfer:** Modalities that force *doing* and *explaining* increase real-world performance.
- **Motivation:** Early wins (quick recall, working demos) keep momentum high.

Reading

- **Quick wins:**
 - Use **SQ3R** (Survey–Question–Read–Recite–Review) on one chapter/day.
 - Read in **25–5 minute** sprints; after each sprint, **close the text** and write 3 bullet recalls.
 - Margin notes = **questions**, not summaries (“Why step 3?” “What if data is missing?”).
- **Foundations:**
 - Build a **concept glossary** (term • 1-line def • tiny example).
 - Turn highlights into **Anki** cards (cloze deletions) and a **one-pager** per topic.
- **Stretch:**
 - Write **critical summaries** (assumptions, limits, when not to use).
 - Compare 2 sources; reconcile contradictions in a short memo.
- **Quick wins:**
 - **Two-pass watch:** 1× skim (1.5–2× speed), then deep pass with **pause→predict** before each step.
 - Timestamped notes: *00:07 feature intro* → *1-line takeaway*.
- **Foundations:**
 - Convert each video into a **checklist** or **mini-lab** you actually execute within 24h.
 - Create a **“missed predictions” log**—what fooled you becomes next study target.
- **Stretch:**
 - Produce a **companion summary** video (2–3 min) teaching the key points.

Audio / Podcasts

- **Quick wins:**
 - Commute learning: 20–30 min episodes; **pause and paraphrase** key idea out loud.
 - Pull transcripts; highlight and **convert to flashcards**.
- **Foundations:**
 - Maintain an **Idea→Action** list: for every episode, 1 experiment to run this week.
 - Pair audio with a **sketch note** immediately after listening (dual coding).
- **Stretch:**
 - Record **voice notes** summarizing concepts in your own examples; review weekly.

Hands-on Practice

- **Quick wins:**
 - **Katas:** 20–40 min focused drills on one micro-skill (e.g., join queries, unit test).
 - Keep an **error log** (bug, root cause, fix, prevent-next-time checklist).
- **Foundations:**
 - Two **scaffolded projects** with clear Acceptance Criteria and tests; aim to ship a **demo weekly**.
 - **Deliberate practice loop:** Define target → attempt → immediate feedback → retry.
- **Stretch:**
 - Contribute a **small PR** to OSS or a real stakeholder mini-problem.

Teaching / Explaining

- **Quick wins:**
 - **Feynman drill:** 5-minute whiteboard lesson to an imaginary “12-year-old.” Gaps = next study tasks.
 - Post one **explainer** per week (thread, README, Loom).
- **Foundations:**
 - Build **8 competency stories** (problem→options→choice→outcome); rehearse with timers.
 - Run a **study circle:** rotate 10-min lightning talks + Q&A.
- **Stretch:**
 - Create a **mini-course** (3 lessons + exercises) or mentor a junior on one topic.

Visual Diagrams

- **Quick wins:**
 - Draw **concept maps** (nodes = ideas, edges = relationships) for each topic.
 - Sketch **system/sequence diagrams** for workflows you learn.
- **Foundations:**
 - Maintain a **diagram atlas:** one canonical picture per topic; update as you learn.
 - Pair every dense text section with a **self-drawn diagram** (dual coding).
- **Stretch:**
 - Produce **visual templates** others can reuse (blank skeletons + examples).

Worked Examples

- **Quick wins:**
 - Follow **example→problem alternation:** after each worked example, solve one similar from scratch.
 - Annotate each step with “**because...**” (self-explanation effect).
- **Foundations:**
 - Use **faded examples:** remove later steps and fill them in yourself.
 - Build a **pattern bank** (input shape → method → pitfalls → checks).
- **Stretch:**
 - **Reverse-engineer** a polished solution: start from the answer, reconstruct the reasoning.

Modal blending (recommended):

- **Understand:** Reading + Visual diagrams + Worked examples
- **Retain:** Reading flashcards + Teaching + Audio recaps
- **Perform:** Hands-on practice + Teaching demos + Worked example fading

Universal practice loop: Plan (mode & goal) → Do (timeboxed) → **Retrieve** (no peeking) → Explain/Teach → Ship artifact → Review metrics → Adjust mix.

Success Metrics & Signals

Track **leading** indicators weekly (behaviors that cause learning) and **lagging** outcomes monthly (performance/retention).

Leading (weekly)

- **Retrieval score:** 10–15 question self-quiz per topic; target **≥80%** with no notes.
- **Shipping cadence:** **2+ artifacts/week** (notes, diagrams, mini-labs, explainers).
- **Spacing coverage:** **≥3 spaced reviews/week** per active topic (e.g., day 1, 3, 7).
- **Self-explanation count:** **≥1 “because…” note** per worked step; **≥1 diagram** per dense concept.
- **Hands-on hours:** **≥3–5 hrs/week** of deliberate practice with feedback.

Lagging (monthly/quarterly)

- **Retention at 7/30 days:** Re-test topics; maintain **≥70%** after 7 days and **≥60%** after 30 without review.
- **Time-to-apply:** Time from first exposure to a **working demo** ↓ **30–50%**.
- **Assessment performance:** Exam/task scores **+15–25%** vs prior month; fewer hints needed.
- **Transfer:** At least **one real problem/month** solved using the new skill (PR merged, analysis accepted).

Qualitative signals

- You can **teach it cleanly** without notes; peers say “that made it click.”
- Fewer **look-ups** for the same concept; clearer **intuition** on edge cases.
- Study sessions feel **purposeful**; less drift, more “I built/solved X.”

Concept Onboarding → Right-First Sequencing

Definition & Scope

How new ideas should be **introduced to you** so they “click” fast and stick. We’re choosing a **sequencing strategy**—the order and framing used at first contact—so your brain has the best entry point. Covered modes: **Big picture** → **details**, **Concrete example** → **principle**, **Step-by-step from basics**, **Compare/contrast with what you already know**. This focuses on **first-pass learning** and early reinforcement; it doesn’t prescribe deep specialization paths or employer-specific training.

Rationale & Impact

Right-fit sequencing lowers **cognitive load**, reduces early **confusion loops**, and accelerates the **understand** → **retain** → **apply** pipeline.

- **Speed:** Faster time-to-comprehension and earlier working demos.
- **Retention:** Clear mental hooks (schema, analogies, patterns) improve recall at 7/30 days.
- **Transfer:** Early framing aligned to your strengths increases “use it in the wild” success.
- **Confidence & momentum:** Fewer false starts; steadier weekly output and cleaner explanations in interviews.

Big picture → details

You want the map before the road.

- **Quick wins:**
 - Write a **1-page brief** per topic: *Why it exists • Where it fits • Inputs/outputs • Success metric*.
 - Draw a **concept map** showing relationships to things you already know.
 - Start every study block with **3 framing questions**: *What problem? For whom? How do we know it worked?*
- **Foundations:**
 - Maintain an **architecture diagram** (system boxes → components → APIs).
 - Use **top-down outlines**: level-1 headings before reading details; fill only what supports the goal.
 - Open each project with a **North-Star KPI** and guardrails (non-goals).
- **Stretch:**
 - Give a **5-minute executive brief** to a peer before implementation; refine from their questions.

Concrete example → principle

You learn best by seeing it work, then extracting rules.

- **Quick wins:**
 - Use **worked examples**; after each, write “**Because...**” notes explaining each step.
 - Alternate **example** → **similar problem** (no peeking) to lock the pattern.
- **Foundations:**
 - Build a **pattern bank**: input shape → method → pitfalls → checks.
 - Do **faded examples** (later steps removed); fill them in yourself.
 - After 3 examples, write the **general principle** + **when it fails**.
- **Stretch:**
 - Create a **counter-example/edge case** that breaks the rule; explain the fix or boundary.

Step-by-step from basics

You prefer scaffolding—no gaps, steady ladders.

- **Quick wins:**
 - Draft a **prerequisites checklist** (must-know terms & micro-skills).
 - Build a **skill ladder**: 6–8 tiny exercises that grow one notch at a time.
 - Use **retrieval mini-quizzes** (5–10 Q) at the end of each rung.
- **Foundations:**
 - Adopt **mastery learning**: progress only when ≥80% on checks.
 - Create **starter templates** (project skeletons, test harness) to keep focus on the current rung.
 - Schedule **spaced reviews** (day 1/3/7).
- **Stretch:**
 - Do a **from-scratch build** (time-boxed) narrating each step; compare with your initial ladder and patch gaps.

Compare/contrast with what I already know

You anchor new ideas by mapping them to familiar ones.

- **Quick wins:**
 - Fill a **T-chart**: *Same vs Different* between new X and known Y.
 - Write **analogy sentences**: “X is like Y but with Z for A.”
 - Make a **migration cheat-sheet**: “If you used Y’s {term}, in X it’s {term}.”
- **Foundations:**
 - Build **transfer maps**: scenarios where you’d pick X vs Y; note boundary conditions.
 - Rewrite one old project replacing Y with X; document **deltas** (APIs, performance, trade-offs).
- **Stretch:**
 - Publish a **decision tree** guide: “Use X when... otherwise Y.” Include trade-off narratives.

Blended recipe (recommended):

- **First contact**: Use your preferred option (A/B/C/D).
- **Lock-in**: Pair with **worked examples** + **retrieval** (short quiz).
- **Performance**: Add **hands-on practice** (small demo) + **teach-back** (2–3 minute explanation).

Universal practice loop: Pre-brief (choose sequencing) → Timebox (60–90 min) → Produce an artifact (diagram/example/ladder/map) → Retrieve (quiz or explain without notes) → Apply (mini-task) → Review & adjust sequencing for next session.

Success Metrics & Signals

Measure **leading indicators** weekly (behaviors that cause learning) and **lagging outcomes** monthly (durability & performance).

Leading (weekly)

- **Pre-brief rate:** % sessions started with your chosen sequencing (brief, example, ladder, or map) **≥80%**.
- **Artifact cadence:** **2+ artifacts/week** aligned to the sequence (1-pagers, concept maps, worked examples, T-charts).
- **Retrieval accuracy:** Self-quiz of 10–15 items **≥80%** without notes within 24h.
- **Teach-back frequency:** **1–2 short explanations/week** to a peer or camera.
- **Sequencing fit check:** After each session, a **1–5 “click score”**; average **≥4**.

Lagging (monthly/quarterly)

- **Retention at 7/30 days:** Re-test topics: **≥70% @7d**, **≥60% @30d** without review.
- **Time-to-demo:** First working demo after first exposure ↓ **30–50%** vs prior month.
- **Error profile:** Repeated mistakes per topic ↓ (tracked from error log).
- **Transfer wins:** **≥1 real application/month** (PR merged, analysis used, script adopted).
- **Interview/story clarity:** Peer-rated clarity on a 5-point rubric **+1 level** over 6–8 weeks.

Qualitative signals

- You can **explain the concept cleanly** using your chosen framing.
- Fewer “lost in the weeds” moments; more **“I know where this fits.”**
- Reviewers remark on **structure and confidence** in your explanations.

Problem-Solving Posture → Match Mode to Moment

Definition & Scope

Your **problem-solving posture** is the default mode you bring to tasks: either generating many possibilities (**divergent**), narrowing to a single best option (**convergent**), or **balancing** both deliberately. Scope covers how you approach research, solution design, modeling, debugging, road-mapping, and feedback sessions. It includes the **rituals, constraints, and cues** that help you pick (and switch) modes. It excludes company politics and resourcing decisions outside your control.

Rationale & Impact

Using the wrong mode at the wrong time is costly: premature convergence kills good ideas; endless divergence prevents shipping. Choosing the right posture **reduces waste, lowers cognitive load, and improves quality**.

- **Speed:** Clear mode → fewer loops, faster decision latency.
- **Quality:** Divergence surfaces non-obvious options; convergence raises rigor and fit.
- **Team alignment:** Mode-matched feedback prevents “drive-by” criticism and review churn.
- **Motivation:** Structured progress (explore → decide → execute) sustains momentum.

Divergent (generate many ideas)

When it shines: vision, early discovery, brainstorming alternatives, breaking stalemates.

Failure mode: idea sprawl, decision drift, weak follow-through.

- **Quick wins**
 - **Timebox ideation:** 10–20 min sprints (e.g., **Crazy-8s**) with a **quota** (≥8 ideas).
 - **Judgment deferral:** Two columns: *Additive comments* now; *Critique* later.
 - **Prompt frameworks:** **SCAMPER** (Substitute, Combine, Adapt, ...), “10x cheaper/faster” variants.
 - **Parking lot:** Capture off-topic gold without derailing the session.
- **Foundations**
 - **Idea taxonomy:** Cluster outputs (themes, feasibility, novelty).
 - **Stage gates:** After each sprint, auto-select **top 3** by quick criteria (impact, effort, risk).

- **Diverse inputs:** Pull 3 analogs from other domains before each session.
- **Stretch**
 - **Innovation cadence:** Monthly “wildcard” sprint with external reviewers.
 - **Portfolio of bets:** Keep **1 high-variance** experiment running alongside core work.
- **Practice cues**
 - Start with “**How else could this fail/succeed?**”
 - Switch to convergence when **two options are clearly dominant** or **timebox expires**.

Convergent (narrow to one best)

When it shines: implementation plans, incident response, architecture choices, exam answers, PR reviews.

Failure mode: premature narrowing, over-fitting to local constraints, analysis paralysis on criteria.

- **Quick wins**
 - **Decision memo (1 page):** Problem → Options (≤ 3) → Criteria (3–5, weighted) → Choice → **Stop-rules** → Risks.
 - **Reversibility test:** If reversible → decide fast & test; if not → add **48h research cap** then decide.
 - **Acceptance criteria:** Define **Definition of Done** & non-goals before work starts.
- **Foundations**
 - **Scorecard:** Simple MCDA (weights × scores) to avoid gut-flip-flops.
 - **Kill list:** Explicit **no-gos** (violates SLO, security, budget).
 - **Red-team/premortem:** List top failure modes before committing.
- **Stretch**
 - **Playbooks:** Standard “choose X vs Y” trees for recurring decisions.
 - **Auto-gates:** CI tests, lint, rubrics aligned to acceptance criteria.
- **Practice cues**
 - Enter with “**What must be true?**”
 - Re-open divergence only if **new evidence breaks a top criterion**.

Balanced

When it shines: end-to-end projects, product discovery, research sprints.

Failure mode: sloppy switching; mode ambiguity in meetings.

- **Quick wins**
 - **Double-Diamond schedule:** *Discover (diverge) → Define (converge) → Develop (diverge) → Deliver (converge)*; label meetings accordingly.
 - **Mode tags:** Every doc/meeting title starts with **[Divergent]** or **[Convergent]**; invite the right behaviors.
 - **Two-good-options rule:** Diverge until you have **2 viable**; then converge to 1.
- **Foundations**
 - **Cadenced switches:** e.g., Tue AM diverge, Tue PM converge; Thurs AM demo.
 - **Roles:** Facilitator (protects mode), Scribe (decisions), Devil’s Advocate (risk).
- **Stretch**
 - **Meta-metrics:** Track time in each mode; tune ratio per project type.
 - **Teaching kit:** Train peers on mode discipline with examples and checklists.
- **Practice cues**
 - Ask “**Are we generating or selecting?**” at the top of sessions.
 - If debates stall, **clarify mode** and restart.

Universal loop: Declare mode → Use matching ritual/tools → Produce artifact (idea set, decision memo) → Review against criteria → Commit or switch mode intentionally.

Success Metrics & Signals

Measure **leading** behaviors weekly and **lagging** outcomes monthly/quarterly. Targets assume 6–8 weeks of discipline.

Leading (weekly)

- **Mode clarity:** ≥90% of sessions labeled **[D]** or **[C]**; attendees can state the goal in one sentence.
- **Decision latency:** Median time from “need a decision” → commit **≤48h (reversible)**, **≤7d (irreversible)**.
- **Divergent yield:** For labeled [D] sessions, **≥8 ideas/20 min** and **≥2 viable options** per problem.
- **Convergent rigor:** **100%** of decisions have a memo with **3–5 criteria** and a stop-rule.
- **Switch discipline:** ≤1 unplanned mode switch/week; all switches documented with a reason.

Lagging (monthly/quarterly)

- **Cycle time:** Start → first demo ↓ **30–50%**.
- **Rework rate:** Reopened tasks / total ↓ **25–40%** (clearer convergence).
- **Throughput:** **+2–4 shipped artifacts/month** (PRs, analyses, mini-features).
- **Hit rate:** % chosen solutions that meet acceptance criteria on first pass ↑.
- **Novelty & impact:** At least **1 high-novelty idea/month** progressed to test; **measurable KPI movement** on delivered items.

Qualitative signals

- Meetings feel **purposeful**; fewer “we spun for an hour” moments.
- Feedback matches mode: additive in [D], critical/selective in [C].
- Stakeholders describe decisions as **timely and well-reasoned**; team reports **lower cognitive drag**.

Unstuck Protocol → First Move That Works

Definition & Scope

When you hit an **impasse**—code won’t run, analysis won’t converge, design won’t click—this insight selects the **first intervention** most likely to break inertia. It standardizes five options for the learn→build→ship loop: **Search docs/examples, Restate/simplify the problem, Sketch a diagram, Compare to a prior pattern, Ask for a targeted hint**. Scope covers individual work (coding, analytics, research, writing) and lightweight team requests (PRs, reviews). It excludes non-work blockers (e.g., approvals, access) unless they’re the root cause.

Rationale & Impact

A reliable first move cuts **decision latency** and **cognitive load**, turns “spinning” into a concrete next step, and preserves momentum.

- **Speed:** Shorter **time-to-unstick (TTU)** → faster demos and fewer abandoned branches.
- **Quality:** Correct first move reduces **rework** and improves reasoning trail (MREs, diagrams, memos).
- **Confidence & teachability:** Clear protocol makes help-seeking precise and makes future you faster.

Search docs / examples

Use when: You see an error/API mystery, version mismatch, or unclear parameter semantics.

Quick wins

- **Query recipe:** <tool/库> <feature/error> <version> site:official-docs OR site:github.com/issues (+ exact strings from logs).
- **Source order:** Official docs → release notes/CHANGELOG → minimal GitHub example → vetted blog.
- Spin a **scratch file/notebook** to run the smallest snippet that reproduces the behavior.

Foundations

- Maintain a **doc index** (links to official pages you actually use), and a **snippet vault** with verified MREs.
- Add **version banners** and pin versions in your repos to avoid drift.

Stretch

- Contribute a **doc fix/issue** or example PR—forces mastery and leaves breadcrumbs for future you.

Pitfalls

- Not checking **version/date**, copying unvetted code, or testing changes in a dirty environment.

Restate / simplify the problem

Use when: The goal or constraints feel fuzzy; symptoms outnumber hypotheses.

Quick wins

- **Rubber-duck** one-liner: “I’m trying to **{goal}** under **{constraints}**; it fails because **{observed}**.”
- Create a **Minimal Reproducible Example (≤30 lines)** or a **failing test** that isolates the defect.
- Write **Definition of Done** (what evidence proves it’s fixed).

Foundations

- Decompose with **Given–When–Then** and **five whys**; log assumptions explicitly.
- Keep a **bug/issue template** (Context → Hypotheses → Experiments → Result).

Stretch

- Build a small **contracts/invariants** checklist for common components (I/O shapes, units, pre/post-conditions).

Pitfalls

- Adding more surface area while “simplifying”; skipping the failing test.

Sketch a diagram

Use when: Data/flow/state/ownership is unclear; you suspect interface or lifecycle issues.

Quick wins

- Draw **boxes & arrows**: Inputs → transforms → outputs; mark **owners** and **SOT (source of truth)**.
- Do a **sequence diagram** of the failing scenario and highlight where reality diverges from expectation.
- Label unknowns with **?** and create a 3-item test list to remove them.

Foundations

- Keep a **diagram atlas** (dataflow, sequence, state machine) linked to code modules.
- Adopt symbols/colors for **trust boundaries**, **async hops**, **hot paths**.

Stretch

- Generate diagrams from code/spec (e.g., OpenAPI/DB schema) to avoid drift; run a **10-min architecture review** on tricky changes.

Pitfalls

- Over-decorating; aim for **clarity over completeness**.

Compare to a prior pattern

Use when: The problem “feels familiar” (retry queues, debouncing, fan-out/in, idempotency, joins, cache, etc.).

Quick wins

- Keep a **pattern bank**: *name* → *when to use* → *steps* → *pitfalls* → *tests*.
- Make a **Same/Different T-chart** vs a solved case; list **boundary conditions**.

Foundations

- Build a **decision tree**: If symptoms = {A,B} → likely pattern X; attach example repos/commits.
- Maintain an **anti-pattern gallery** (what not to do + why).

Stretch

- Codify **selection heuristics** (e.g., “If latency < X and failure mode = timeout → use circuit breaker”).

Pitfalls

- Forcing a fit; confirm assumptions with a micro-test before committing.

Ask for a targeted hint

Use when: You've done a minimal pass ($\leq 30-45$ min) and are blocked by an unknown-unknown or access/ownership.

Quick wins

- Use the **Hint Template**:
 - **Context:** 2 lines (env/version/goal).
 - **What I tried:** bullets (MRE link, tests, diagrams).
 - **Hypotheses:** top 1-2.
 - **Exact ask:** "A nudge on {X} or a pointer to {doc/owner}."
 - **Constraint:** "Prefer a hint, not the full solution."
- Attach a **MRE** or **screenshot/diagram**; propose **two paths** and ask which to try first.

Foundations

- Create a **help-seeking SOP** (where to ask, who owns what, SLAs). Keep a **hint log** (ask → hint → outcome).

Stretch

- Rotate into **mentor mode** 1×/month; teaching sharpens your own pre-hint triage.

Pitfalls

- Vague asks, missing context, or requesting full solutions too early.

Success Metrics & Signals

Track **leading** (behavioral) and **lagging** (outcomes) over 6-8 weeks.

Leading (weekly)

- **TTU (Time-to-Unstick):** median minutes from "stuck" → "next validated step" ↓ **30-50%**.
- **Protocol adherence:** $\geq 80\%$ of stuck events follow the **escalation ladder**; artifact produced before hints.
- **MRE rate:** $\geq 70\%$ of tech asks include a minimal repro or failing test.
- **Diagram usage:** ≥ 1 new/updated diagram for flow/state issues each week.
- **Hint quality score:** Mentor/peer rates your asks $\geq 4/5$ (context, clarity, minimality).

Lagging (monthly/quarterly)

- **Rework/redo:** reopened tickets / total ↓ **25-40%**.
- **Cycle time:** start → first demo ↓ **30-50%**.
- **Throughput:** **+2-4 shipped artifacts/month** (PRs, analyses, demos).
- **Blocking time:** cumulative "waiting while stuck" hours ↓; fewer day-long stalls.

Qualitative signals

- You feel **in control** when blocked; fewer "lost hours."
- Reviewers praise **clear artifacts** (MREs/diagrams) and **precise asks**.
- Your own pattern bank/atlas grows, and future similar issues resolve in minutes, not hours.

Consistent Practice → Remove the Real Constraint

Definition & Scope

This insight identifies the **practical constraints** that most often block your weekly learn→build→ship rhythm so we can **right-size workload, add scaffolds, and design recovery**. Scope includes seven constraint types you can influence: **Low energy/fatigue, Stress/overload, Environment/noise, Competing obligations, Health concerns, Irregular schedule, Other (custom)**. It focuses on habits, scheduling, ergonomics, and lightweight policy changes—not clinical treatment or organizational politics.

Rationale & Impact

Consistency compounds. If a hidden constraint keeps breaking your streak, you never get enough **reps** for skills to stick. Making the constraint explicit lets you **re-plan capacity**, add the **right guardrails** (templates, WIP limits, buffers), and protect **deep work**. Result: steadier throughput, lower rework, and a portfolio that grows every week instead of in bursts.

Low energy / fatigue

Signals: Afternoon crashes, can't start hard tasks, high caffeine dependence, start-stop cycles.

- **Quick wins:**
 - **Chronotype scheduling:** Put hardest block in your personal peak (AM/PM); set **90-min** deep-work sprint + **10-min** movement break.
 - **Energy floor:** On low-energy days, do a **Bronze plan** (20-min retrieval quiz or bug-fix kata) instead of skipping.
 - **Friction kill:** One-command environment setup; open the exact file/task at shutdown ("landing strip").
- **Foundations:**
 - **Sleep & light routine:** consistent wake time; morning outdoor light; late-day caffeine cut-off.
 - **Pacing:** Alternate **hard**→**easy** tasks; avoid stacking cognitively heavy items back-to-back.
- **Stretch:**
 - **Energy audit:** Track 7 days (task, time, energy 1–5) → schedule hard work where data says "4–5".
 - **Micro-fitness:** 2–3 short walks or mobility sets to restore alertness.

Stress / overload

Signals: Mental churn, task hoarding, doom-scrolling, poor sleep, snap decisions.

- **Quick wins:**
 - **WIP ≤1** per stream; convert worries into **tasks with criteria**; daily 5-min **brain dump** → **Next 1**.
 - **2×2 triage:** (Impact × Urgency); drop/park low-low items.
 - **Breathing reset:** 2–3 cycles of **box breathing** before deep work.
- **Foundations:**
 - **Weekly review:** Close loops, renegotiate deadlines, and pre-decide the week's **non-negotiable** 2–3 blocks.
 - **Boundaries:** Focus hours; mute defaults; batch messages.
- **Stretch:**
 - **Recovery protocol:** 1 off-evening after big deliveries; quarterly "no-build" weekend to reset.

Environment / noise

Signals: Frequent interruptions, noisy space, tool/desk clutter, unstable internet.

- **Quick wins:**
 - **Place shift:** library, quiet room, or noise-cancel + neutral playlist.
 - **Clean zone:** clear desk, single screen layout; pin only active doc/repo.
 - **Notification gate:** Do Not Disturb + whitelist; turn off badges; batch email twice/day.
- **Foundations:**
 - **Focus kit:** headphones, charger, offline docs, downloadable datasets; **offline plan** for outages.
 - **Space rules:** visible "focus" marker; household/roommate agreement.
- **Stretch:**
 - **Tooling consolidation:** one source of truth; scripted project scaffolds to avoid setup thrash.

Competing obligations

Signals: Family/work/school collisions; last-minute cancellations; guilt-driven context switches.

- **Quick wins:**
 - **Anchor blocks:** 2–3 fixed slots/week others can plan around.
 - **Negotiation scripts:** “I can do X by Fri or Y by Wed—what’s higher priority?”
 - **Bundling:** Pair practice with an existing routine (after dinner = 45-min kata).
- **Foundations:**
 - **Capacity caps:** Max **6–8 hrs/week** of practice during busy terms; protect one **catch-up** slot.
 - **Task slicing:** 45-min units with *clear done*; assemble into larger goals.
- **Stretch:**
 - **Seasonal plan:** High/low seasons with pre-agreed output targets; schedule pushes only in high season.

Health concerns

Signals: Pain, migraines, chronic conditions, mental health dips, medical appointments.

- **Quick wins:**
 - **Bronze/Silver/Gold ladders:** Bronze = 10–20 min low-strain (reading, flashcards); Silver = 45-min scaffolded lab; Gold = full sprint.
 - **Ergonomics:** chair height, monitor at eye level, frequent micro-breaks; accessibility settings.
 - **Foundations:**
 - **Energy-aware planning:** more buffers; no two “Gold” days back-to-back.
 - **Communication:** share constraints with a mentor/teammate to align expectations.
 - **Stretch:**
 - **Assistive workflows:** voice notes → transcript, dark mode themes, automation for repetitive steps.
- *For diagnosis/treatment, consult a qualified professional; the above is non-medical guidance.

Irregular schedule

Signals: Rotating shifts, unpredictable classes, travel, variable family care.

- **Quick wins:**
 - **Minimum Viable Practice (MVP):** 20-min packable sessions (quiz set, micro-bug, flashcards).
 - **Go-bag:** laptop, repo clone, offline materials, hotspot plan.
- **Foundations:**
 - **Playbook A/B/C:** 20, 45, and 90-min session recipes you can swap in on short notice.
 - **Rolling plan:** Plan **next 72 hours** instead of the whole week; daily check at the same time.
- **Stretch:**
 - **Async accountability:** bot or peer check-ins; streak counter with “**zero-day rule**” (something > nothing).

Other (custom)

Signals: Recurring friction that doesn’t fit above.

- **Diagnosis:** **Time audit (1 week) + 5 Whys + value-stream map** (Idea→Done) to find the constraint.
- **Intervention:** Add the **smallest rule/tool** that removes the root cause; review in 2 weeks.

Universal cadence (for all constraints):

Plan the week (anchors + buffers) → Run **Gold/Silver/Bronze** ladder daily → Log 3 lines (Done, Energy 1–5, Next) → Weekly review (Keep/Drop/Try) → Adjust capacity, not willpower.

Success Metrics & Signals

Track **leading (weekly behaviors)** and **lagging (monthly outcomes)**; use simple dashboards or a one-page log.

Leading (weekly)

- **Consistency rate:** Days with **any** practice $\geq 5/7$ (zero-day rule).
- **Deep-work adherence:** $\geq 75\text{--}80\%$ of planned anchor blocks executed.
- **Energy fit:** % hard sessions placed in energy-peak windows $\geq 70\%$.
- **WIP discipline:** Weeks with **WIP** ≤ 1 per stream $\geq 80\%$.
- **Environment control:** Sessions with DND + prepared focus kit $\geq 80\%$.
- **Stress check:** Average daily stress/overload self-rating \downarrow vs baseline (1–5 scale).

Lagging (monthly/quarterly)

- **Throughput:** **+2–4 reviewable artifacts/month** (PRs, case studies, demos).
- **Cycle time:** Start→Demo \downarrow **30–50%** from baseline.
- **Rework:** Reopened items / total \downarrow **25–40%**.
- **Streak health:** Longest streak \uparrow and breaks ≤ 2 consecutive days.
- **Scope reliability:** % milestones delivered on planned month \uparrow .

Qualitative signals

- Fewer “I’ll do it later” moments; more **automatic starts**.
- You can explain **why** a low-output week happened and how the system adapted (Bronze/Silver/Gold).
- Reviewers notice steadier updates; you feel **in control** rather than behind.

Skipped Practice → Match Accountability Intensity

Definition & Scope

How often you **skipped planned practice** in the last 4 weeks. “Planned” means a session you slotted in your calendar/weekly plan; “skipped” means you didn’t do it and didn’t reschedule it within **48 hours**. Scope includes study blocks, drills, coding katas, and project work aimed at your target role. It excludes sessions you intentionally canceled *and* replaced with an equivalent block in the same week.

Rationale & Impact

Consistency compounds skills. Skips break spacing, slow feedback loops, and weaken motivation. Measuring your real skip rate lets us **dial accountability to the right level**—from light touch (self-led) to high structure (buddy, daily check-ins, tiny tasks). Done well, you’ll see:

- **More throughput:** steady artifacts shipped each week
- **Better retention:** spaced reps stick; fewer re-learn cycles
- **Lower cognitive load:** less internal negotiation (“do I go now?”)
- **Cleaner narrative:** predictable progress you can show in reviews/interviews

Never

Accountability Level 1 – Self-managed (maintenance mode)

- **Quick wins**
 - Add **drift guardrails:** cap WIP ≤ 1 per stream; pre-commit “demo Friday” (always ship something).
 - **Progressive overload:** +10–15% difficulty or duration every second week.
- **Foundations**
 - Rotate **Gold/Silver/Bronze** days (intense/medium/light) to avoid burnout.
 - Quarterly **deload week** (reduce volume 40%, keep frequency).
- **Stretch**
 - Mentor someone 1×/month; teaching locks habits and raises standards.

1–2 times

Accountability Level 2 – Light structure

- **Quick wins**
 - **Implementation intentions:** “If it’s 7:00pm, then I start the 45-min kata.”
 - Build a **landing strip** at shutdown (open next file, write next step).
- **Foundations**
 - **Anchor blocks:** 2–3 fixed slots/week others can plan around.
 - **Two-strike reschedule:** any miss must be rebooked within 48h; only 2 reschedules allowed per month.
- **Stretch**
 - Public **weekly commitment post** (what you’ll demo Friday).

Weekly

Accountability Level 3 – Structured

- **Quick wins**
 - **Buddy check-in:** 10-min call M/W/F; send a screenshot of “done.”
 - **Smaller units:** slice sessions to **45 min** with a concrete “Done” (test passes, PR draft, 10 Q quiz).
- **Foundations**
 - **Weekly review ritual:** Keep/Drop/Try; move heavy items to energy-peak slots.
 - **Template kit:** status update, PR/analysis template, rubric—reduces start friction.
- **Stretch**
 - **Streak tracker:** aim for **5/7 days** with *any* practice (zero-day rule: something > nothing).

Multiple times per week

Accountability Level 4 – High structure

- **Quick wins**
 - Cut scope **30%** for 2 weeks; win back reliability before intensity.
 - **Daily check-in** (text/Slack bot): “Plan → Done → Next (tomorrow)”.
 - Default to **Bronze session** (20 min) on low-energy days instead of skipping.
- **Foundations**
 - **Rolling 72-hour plan** instead of whole-week fantasies; refresh daily.
 - **Environment design:** single study location, DND mode, focus playlist, one-command project start.
- **Stretch**
 - Join a **co-working/study room** (2–3 fixed windows/week) or a cohort with penalties/rewards.

Most sessions

Accountability Level 5 – Reboot & rebuild trust

- **Quick wins**
 - **Minimum Viable Practice:** 10–15 minutes/day for 14 days—non-negotiable, same time, same place.
 - Focus on **one skill** only; kill all parallel streams.
- **Foundations**
 - **Coach/mentor** or peer supervisor for 4 weeks; share plan and outcomes.
 - **Health/constraints check:** fix root blockers (sleep, schedule, environment) and adopt **Bronze/Silver/Gold** ladder.
- **Stretch**
 - After 3–4 stable weeks, reintroduce 45-min sessions and a single weekly **demo**; keep daily micro-proofs (screenshot/PR/quiz).

Universal practice loop: Plan the week → Show up to the smallest viable session → Ship a **reviewable micro-artifact** → Log (Done, Energy 1–5, Next) → Weekly review → Adjust **accountability level**, not just willpower.

Success Metrics & Signals

Track **leading** (weekly behavior) and **lagging** (monthly outcomes) plus **qualitative** cues. Targets assume 6–8 weeks.

Leading (weekly)

- **Consistency rate:** Days with *any* practice **≥5/7** (Level 4–5) or **≥4/7** (Level 3), maintain **7/7 Bronze+** for Level 1–2 deload weeks.
- **Plan adherence:** Execute **≥75–80%** of anchor blocks.
- **Reschedule discipline:** Missed session rescheduled within **48h ≥90%**.
- **Session completion:** ≥85% sessions end with a **micro-artifact** (quiz score, PR, notebook, diagram).
- **Buddy/coach touchpoints:** Met as planned (Level 3+: ≥2/week; Level 4–5: ≥3/week).

Lagging (monthly/quarterly)

- **Skip trend:** Skips ↓ by **50%** vs baseline (Level 3–5) or held ≤1 (Level 1–2).
- **Throughput:** **+2–4 reviewable artifacts/month** (PRs, case studies, demos).
- **Cycle time:** Start → first demo ↓ **30–50%**.
- **Rubric growth:** Priority competencies **+1 level** in 8 weeks.

Qualitative signals

- Starts feel **automatic** (less self-negotiation).
- You can explain a low-output week with a **specific cause and fix**.
- Reviewers notice **steadier updates** and fewer “last-minute” rushes.

Constraints → Bound the Plan, Spend Smart

Definition & Scope

This insight captures the **real-world constraints** that shape your next 4–8 weeks so we can plan **inside the box** and still make progress. Scope includes six constraint types: **Limited time, Budget cap, Tool/platform access, Network access, Location/logistics, Other (custom)**. We turn each constraint into **explicit bounds** (hours, cost, access, mobility) and **resource-savvy tactics** (substitutions, batching, offline-first, mocks) that protect momentum.

Rationale & Impact

Unstated constraints lead to fantasy plans, missed milestones, and burnout. Stating the bounds **early** lets us right-size workload, choose cheaper equivalents, and design offline/low-friction paths. Benefits:

- **Higher completion rate:** Smaller, feasible scopes ship on time.
- **Lower waste:** Fewer stalls from access, cost, or environment surprises.
- **Clear trade-offs:** Stakeholders accept “what fits” given hours/budget/tools.
- **Compounding output:** Consistency beats sporadic heroic bursts.

Limited time

Signals: Week evaporates; sessions overrun; start-but-don’t-finish tasks.

- **Quick wins**
 - Set a **capacity cap** (e.g., 6–8 hrs/wk). Slice work into **45-min units** with a concrete “Done”.
 - Use **WIP ≤1** per stream; adopt **Gold/Silver/Bronze** sessions (90/45/20 min).
 - **Rolling 72-hour plan** instead of speculative weekly plans.
- **Foundations**

- Template everything (PR/analysis, status, experiment) to cut start friction.
- **Demo Friday** rule: ship something reviewable every week.
- **Stretch**
 - Automate recurring steps (Makefile/CI scripts), and bundle similar tasks (**batching**) to reduce context cost.

Budget cap

Signals: Paid tools/courses out of reach; cloud bills surprise you.

- **Quick wins**
 - Prefer **OSS/free tiers/EDU credits**; lock a monthly **spend ceiling** (e.g., \$25).
 - Track **cost per artifact** (total spend / shipped items) to surface waste.
- **Foundations**
 - **Local-first** dev (containers, small samples); schedule cloud bursts only for final runs; use **spot/preemptible** if needed.
 - Maintain an **open-source substitution matrix** (paid → OSS).
- **Stretch**
 - Build a tiny **cost guardrail**: alerts at 50/80/100% of budget; precompute & cache expensive steps.

Tool / platform access

Signals: No license/seat; gated environment; waiting for approvals.

- **Quick wins**
 - **Mock/emulate**: local DB/file store; API stubs; Dockerized equivalents.
 - Keep **offline docs**; mirror examples; pin versions in a starter repo.
- **Foundations**
 - **Access playbook** (who approves, SLA, required info); request early with a checklist.
 - Build a **golden-path dev container** usable on any machine.
- **Stretch**
 - Maintain **compatibility layers** (adapters) so you can swap vendors with minimal refactor.

Network access

Signals: Flaky internet; large downloads block sessions; cannot sync repos.

- **Quick wins**
 - **Offline-first** kit: cached docs, mirrored datasets, local package indexes; **go-bag hotspot** plan.
 - **Batch heavy downloads** to stable windows; compress notebooks/artifacts.
- **Foundations**
 - **Local mirrors** (datasets, wheels); use **rsync**/SVN-style partial pulls; script “sync now” actions.
 - Design **sync points** (at the end of a block) to avoid mid-task failures.
- **Stretch**
 - Architect projects with **incremental caches** and reproducible pipelines that don’t require live calls.

Location / logistics

Signals: Noisy space; travel; limited desk/monitor; power issues.

- **Quick wins**
 - **Place-shift** (library/quiet room); DND + noise-cancel; **single-screen minimalist layout**.
 - Build a **portable focus kit** (charger, headset, repo clone, offline notes).
- **Foundations**
 - **Anchor blocks** at predictable times that fit your location reality; publish to collaborators.
 - Standardize a **one-command project start** so you can resume anywhere.

- **Stretch**
 - Rotate **co-working/study rooms**; invest in ergonomic essentials (stand, keyboard) that travel well.

Other (custom)

Signals: Recurring friction not covered above.

- **Diagnosis**
 - Run a **time audit (1 week)** + **value-stream map** (Idea→Done) + **5 Whys** to find the real constraint.
- **Intervention**
 - Add the **smallest rule/tool** that removes the root cause; review ROI in 2 weeks.

Constraint Contract (use for any combo):

- **Bounds:** Hours/wk = {X}; Budget/mo = {Y}; Access = {tools ok / substitutes}; Network = {offline windows}; Location = {A/B sites}.
- **Plan fit:** Milestones scoped to fit bounds with **one weekly demo** and **WIP ≤1**.

Success Metrics & Signals

Track **leading** behaviors weekly and **lagging** outcomes monthly; keep a one-page dashboard.

Leading (weekly)

- **Plan vs capacity fit:** Planned hours within **±10%** of stated capacity.
- **WIP discipline:** Weeks with **WIP ≤1** per stream **≥80%**.
- **Template/automation use:** **≥90%** artifacts use the standard templates or scripts.
- **Offline readiness:** Sessions started successfully without network/tool access **≥80%** of the time when constraints bite.
- **Budget adherence:** Spend **≤ 90%** of cap; alerts triggered at 50/80%.
- **Blocked-time reduction:** Median hours lost to access/network/logistics **↓ 40%** from baseline.

Lagging (monthly/quarterly)

- **Throughput:** **+2–4 reviewable artifacts/month** (PRs, analyses, demos).
- **Cycle time:** Start → first demo **↓ 30–50%**.
- **Cost efficiency:** **Cost per artifact** **↓** month over month while meeting quality bars.
- **On-time delivery:** % milestones delivered within the constraint window **↑** (target **≥85%**).
- **Rework rate:** Reopened items / total **↓ 25–40%**.

Qualitative signals

- Plans feel **realistic**; fewer emergencies and fewer “waiting on X” updates.
- You can state the **constraint contract** in one sentence and stakeholders accept the trade-offs.
- Sessions start **without hesitation** because the environment is ready and the scope fits.

Fear-Avoidance of Stretch Work → Exposure & Safety Plan

Definition & Scope

How frequently you **avoid stretch opportunities** (presenting, owning a complex task, interviewing, publishing work) because of fear of being “found out.” The insight tunes an **exposure plan** (gradual, repeatable attempts) and **safety scaffolds** (guardrails that limit downside) so you can act despite discomfort. Scope includes volunteering, demos, interviews, high-visibility tickets, and learn-in-public posts. It excludes sensible “no’s” due to misalignment (wrong domain, unethical work, impossible deadline).

Note: If fear produces severe distress (panic, persistent insomnia, clinical anxiety), consider speaking to a qualified professional; the tactics below are non-clinical skill habits.

Rationale & Impact

Avoidance blocks compounding. Stretch attempts create outsized gains—new skills, artifacts, referrals, and believable stories for interviews. When fear wins, you **under-ship, under-signal**, and delay readiness. Calibrated exposure plus safety scaffolds:

- **Shrinks fear loops:** repeated, small wins rewire “danger” expectations.
- **Increases throughput:** more demos, PRs, and talks reach reviewers.
- **Improves narrative:** you collect credible, role-aligned stories.
- **Builds durable confidence:** confidence follows evidence, not hype.

Never

Exposure Level 1 — Maintain & Raise the Bar

- **Quick wins:**
 - Keep a **risk budget**: 1 significant stretch/month (talk, major ticket).
 - Add a **tight feedback loop** (dry-run with rubric) so success maps to standards, not luck.
- **Foundations:** rotate harder formats (live coding → Q&A panel → executive brief).
- **Stretch:** mentor others on exposure habits; teaching keeps your edge.

Rarely

Exposure Level 2 — Light Exposure with Guardrails

- **Quick wins:**
 - **Two-step volunteer:** co-present this week; solo next month.
 - **Pre-read + dry-run:** share materials 24h early; rehearse once with a peer.
- **Foundations:** maintain an **evidence log** (attempt → outcome → lesson) to fight memory bias.
- **Stretch:** commit publicly to a monthly demo; use a **fallback plan** (timebox + handoff) for tricky moments.

Sometimes

Exposure Level 3 — Structured Ladder

- **Quick wins:**
 - Build a **3-rung ladder** for one domain: *Rung 1*: 2-min update; *Rung 2*: 10-min demo; *Rung 3*: 20-min talk. Put dates on each.
 - Write a **premortem** (“ways this can flop”) and add **mitigations** (backup data, simpler path).
- **Foundations:**
 - **Buddy contract:** peer reviews slides/PRs; attends live session; debriefs with rubric.
 - **Thought record** (stimulus → automatic thought → evidence for/against → balanced reframe).
- **Stretch:** host a **community lightning talk** or submit a small **OSS PR** in public.

Often

Exposure Level 4 — High Structure & Safety Nets

- **Quick wins:**
 - **Default volunteer** rule: if you’re 60% prepared by Thu, you present Friday.
 - **Micro-bids:** request **one slice** of a big task (intro + demo only; or metrics section only).
- **Foundations:**
 - **Scripted openers & checklists** (BLUF slide, success metric, risks, ask).
 - **Co-ownership:** split delivery (you own core; partner handles Q&A/edge cases).
- **Stretch:** join a **weekly co-working group** with mandatory show-your-work; small penalties for no-shows.

Almost always

Exposure Level 5 — Reboot with Micro-Bravery

- **Quick wins:**
 - **Daily 10-minute exposure** for 14 days (post a tiny note, ask 1 question in stand-up, record a 2-min Loom).
 - **Single arena only** (e.g., short demos)—no parallel exposures.
- **Foundations:**
 - **Coach/mentor** for 4–8 weeks; share ladder and outcomes.
 - **Safety kit:** templates, dry-run, pre-read, timebox, backup slide, “I’ll follow up” script.
- **Stretch:** after 3–4 stable weeks, upgrade to a **15–20 min** live session; keep daily micro-proofs.

Universal safety scaffolds (use at any level):

- **Templates:** 1-slide BLUF, demo script, Q&A “parking lot,” post-mortem doc.
- **Rubrics:** 4–5 rows (clarity, correctness, relevance, time control, composure).
- **Timeboxes:** build (45–90m), rehearse (15m), deliver (≤20m).
- **Fallbacks:** simpler demo path, “pause & summarize,” “follow-up in 24h.”
- **Language swaps:** “I’ll be found out” → “I’m running a **test with guardrails**.”

Universal loop: Choose rung → Prep with scaffolds → Deliver → Debrief (rubric + evidence log) → Adjust next rung.

Success Metrics & Signals

Track **leading** (weekly behaviors) and **lagging** (monthly outcomes) plus **qualitative** shifts. Targets assume 6–8 weeks.

Leading (weekly)

- **Exposure cadence:**
 - L2–L3: **1–2 exposures/week** (updates, micro-demos).
 - L4–L5: **5–7 micro-bravery acts/week** (10–15 min each).
- **Prep discipline:** ≥80% exposures include **pre-read + dry-run + fallback**.
- **Anxiety delta:** self-rated anxiety **pre vs post** session ↓ by **30–50%** over 4–6 weeks.
- **Volunteer latency:** time from opportunity → “I’ll take a slice” **≤24–48h**.
- **Evidence log:** **2+ entries/week** (attempt, rubric score, lesson).

Lagging (monthly/quarterly)

- **Throughput:** **+2–4 public artifacts/month** (talks, demos, PRs, posts).
- **Pass-through rates:** interview/dry-run/PR acceptance **+15–30%**.
- **Scope growth:** larger slices owned (from section → full segment → end-to-end).
- **Referral/visibility:** **mentions/endorsements** citing your visible work ↑.

Qualitative signals

- Language shifts from **avoidance** (“not ready”) to **testing** (“I’ll do the intro demo”).
- Fear spikes are **shorter**, recoveries faster; feedback centers on content, not nerves.
- Teammates **invite** you to lead segments; you feel **evidence-based confidence**.