Skills Inventory — Top 20 Priority

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Measurement window: 19 days (2026-04-16 to 2026-05-05)
Priority formula: `log10(skill_md_tokens_est) * (1 + invocations_30d)`

Top-20 Refactor Priority Table

Rank	Skill Name	LOC	Tokens	Inv 30d	Est $/mo (current)	Est $/mo (post-L3)	Savings $/mo	Priority Score	Owner
1	task-postflight	541	5,367	21	$0.547	$0.078	$0.469	82.054	john
2	prompt-forge	224	2,372	20	$0.350	$0.070	$0.280	70.877	john
3	plan-with-team	140	1,177	13	$0.105	$0.042	$0.063	42.991	john
4	build-plan	90	923	7	$0.126	$0.063	$0.063	23.722	john
5	ask-board	307	2,623	3	$0.125	$0.038	$0.087	13.675	john
6	build	79	838	3	$0.113	$0.057	$0.056	11.693	john
7	sentinel	105	990	2	$0.116	$0.058	$0.058	8.987	john
8	sync	46	346	2	$0.087	$0.087	$0.000	7.617	john
9	learning-opportunity	165	1,433	1	$0.067	$0.034	$0.033	6.313	john

Rank	Skill Name	LOC	Tokens	Inv 30d	Est $/mo (current)	Est $/mo (post-L3)	Savings $/mo	Priority Score	Owner
10	vault-unlock	117	1,312	1	$0.142	$0.071	$0.071	6.236	john
11	incident-response	122	1,051	1	$0.067	$0.034	$0.033	6.043	john
12	youtube-learning	93	877	1	$0.136	$0.068	$0.068	5.886	john
13	code-review	87	674	1	$0.002	$0.001	$0.001	5.657	john
14	lightrag-upload	87	659	1	$0.117	$0.059	$0.058	5.638	john
15	lightrag-status	101	625	1	$0.121	$0.061	$0.060	5.592	john
16	product-lifecycle	491	5,103	0	$0.081	$0.041	$0.040	3.708	john
17	skill-creator	362	4,911	0	$0.088	$0.044	$0.044	3.691	john
18	doc-coauthoring	375	4,274	0	$0.208	$0.104	$0.104	3.631	john
19	mcp-builder	236	2,457	0	$0.135	$0.068	$0.067	3.390	john
20	plan-build-test	293	2,437	0	$0.099	$0.050	$0.049	3.387	john

est_$/mo (post-L3) = estimate assuming 50% body-token reduction via progressive disclosure

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Per-Skill Triage — Top 5

#1 task-postflight

- **Current footprint:** 541 LOC / 5,367 tokens
- **Why bloated:** BLOAT_LOC_GT_300 — Contains anomaly decision tree (Section 3), learning-opportunity dispatch template (Section 4), memory writer procedure (Section 5), and failure mode reference table (Section 8) all inline in one file. Most of this content is only needed after an anomaly is detected.

- **Recommended action:** Split — progressive-disclose. Trigger skeleton ≤200 LOC stays in SKILL.md; Sections 3-5+8 move to references/.
- **Predicted savings:** ~3,500 tokens/session on typical PASS flows (63% context reduction); full 5,367 tokens only loaded on ANOMALY path.

#2 prompt-forge

- **Current footprint:** 224 LOC / 2,372 tokens
- **Why bloated:** Single references/agent-briefs.md exists but body still contains full 5-panelist dispatch protocol, model tier assignments, and synthesis rules inline.
- **Recommended action:** Split — move per-panelist briefs and synthesis rules to references/; keep trigger condition and dispatch skeleton in core.
- **Predicted savings:** ~1,200 tokens/session (50% reduction).

#3 plan-with-team

- **Current footprint:** 140 LOC / 1,177 tokens
- **Why bloated:** No references/ dir. Builder/validator role descriptions, round-robin protocol, and output templates are all inline. Frequently invoked (13x in window).
- **Recommended action:** Progressive-disclose — move builder brief and validator brief to references/. Keep selection logic in SKILL.md.
- **Predicted savings:** ~700 tokens/session (59% reduction) across 13 monthly invocations.

#4 build-plan

- **Current footprint:** 90 LOC / 923 tokens
- **Why bloated:** No references/ dir. Moderate size but high invocation frequency (7x). Output templates and TaskList format examples inline.
- **Recommended action:** Progressive-disclose — move TaskList format examples and edge-case handling to references/quick-ref.md.
- **Predicted savings:** ~400 tokens/session (43% reduction).

#5 ask-board

- **Current footprint:** 307 LOC / 2,623 tokens
- **Why bloated:** BLOAT_LOC_GT_300 — 5-agent dispatch briefs are fully inline. Each panelist persona description (50-80 lines each) loads for every board invocation.
- **Recommended action:** Split — move per-panelist briefs to references/panelist-<name>.md. Keep dispatch skeleton (trigger, model tier, synthesis format) in SKILL.md.
- **Predicted savings:** ~1,800 tokens/session (69% reduction).

Full per-skill triage for all 20: See main audit spec `~/system/specs/agentic-os-pillar4-skills-audit-2026-05-04.md` §4.

CSV inventory: `~/system/specs/agentic-os-pillar4-skills-inventory.csv` (79 skills, 20 columns)

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