H. heili

Sovereign, cited AI for standards-driven knowledge.

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BUILT IN CANADA

What Heili is

Heili is a Canadian knowledge engine that turns standards, regulation, doctrine and training material into a curated, expert-reviewed knowledge base that AI can reason over. Every answer cites the exact clause it came from. Heili has run in production as FireBrain Expert for the Canadian fire service since July 2026.

The problem

Organizations that answer to standards — emergency services, defence, regulators, heavy industry — work from large, layered and changing bodies of authoritative text. Finding the governing answer is slow. Proving that a training program covers every requirement is manual, and often skipped. Generic AI answers confidently but cannot cite or be audited, so it fails wherever an answer must be defended.

How it works

- **Clause-level knowledge base:** source material is broken into statements, each tied to its governing clause and signed off by subject-matter experts.
- **Cited answers:** AI assistants reason only over the curated base; if the answer is not there, Heili says so instead of inventing one. A reference reads as `NFPA 1081 (2018) 5.2.1`.
- **Curriculum generation:** from a plain-language request, Heili drafts complete courses, skill sheets and assessments, each element cited to the standard it serves, for expert review and approval.
- **Coverage audits:** training content maps to the requirements it satisfies, exposing gaps clause by clause.
- **Edition crosswalks:** changes between editions of a standard are flagged, not silently inherited.
- **Gap reporting:** users flag misses, which feed back into curation.
- **Works with any LMS:** Heili is a knowledge, authoring and audit layer, not a learning platform, so it sits alongside whatever system an organization already runs.

Proven in production

Heili scored 99% on a 1,450-question human-prepared exam using the knowledge base alone. Figures are for FireBrain Expert, from cerps.ca.

MEASURE	RESULT
Statements curated	**64,029 across 14 volumes**
Standards covered clause by clause	**31**
Sources of law and guidance	**67**
Exam accuracy (1,450 questions)	**99%**
Planted gaps flagged in error review	**6 of 6, zero false reports**
Expert sign-off	**Every volume, before release**

CURRICULUM IN PRACTICE

Heili produced a complete NFPA aircraft rescue and firefighting (ARFF) course, with skill sheets and assessments, for First Nations delivery through Waswanay Consulting, in two weeks with one subject-matter expert. Built by traditional methods, the same course takes about four months and two to three experts.

Built for disconnected environments

Heili runs fully self-contained: the knowledge engine and an open-weight AI model operate together on a single workstation, with no internet, cloud or external dependency, and no query ever leaves the device. The configuration is tested and suits remote sites, vessels, and air-gapped or bandwidth-limited networks. Heili is model-agnostic, so an organization can run whatever AI model it has approved and swap models without rebuilding the knowledge base. Because answers come only from a curated, closed knowledge base, Heili cannot be polluted by open-internet misinformation.

Sovereign by design

Heili is Canadian-owned, Canadian-built and hosted only in Canada, on dedicated servers in Montreal that CERPS controls. CERPS owns all of the software and methodology, and Heili contains no ITAR-controlled technology. CERPS Inc. (Centre for Emergency Response and Public Safety) also serves about 40 Ontario fire departments and holds the Ontario Fire College contract through its Stillwater brand.

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