



Forging a New Layer of Safety

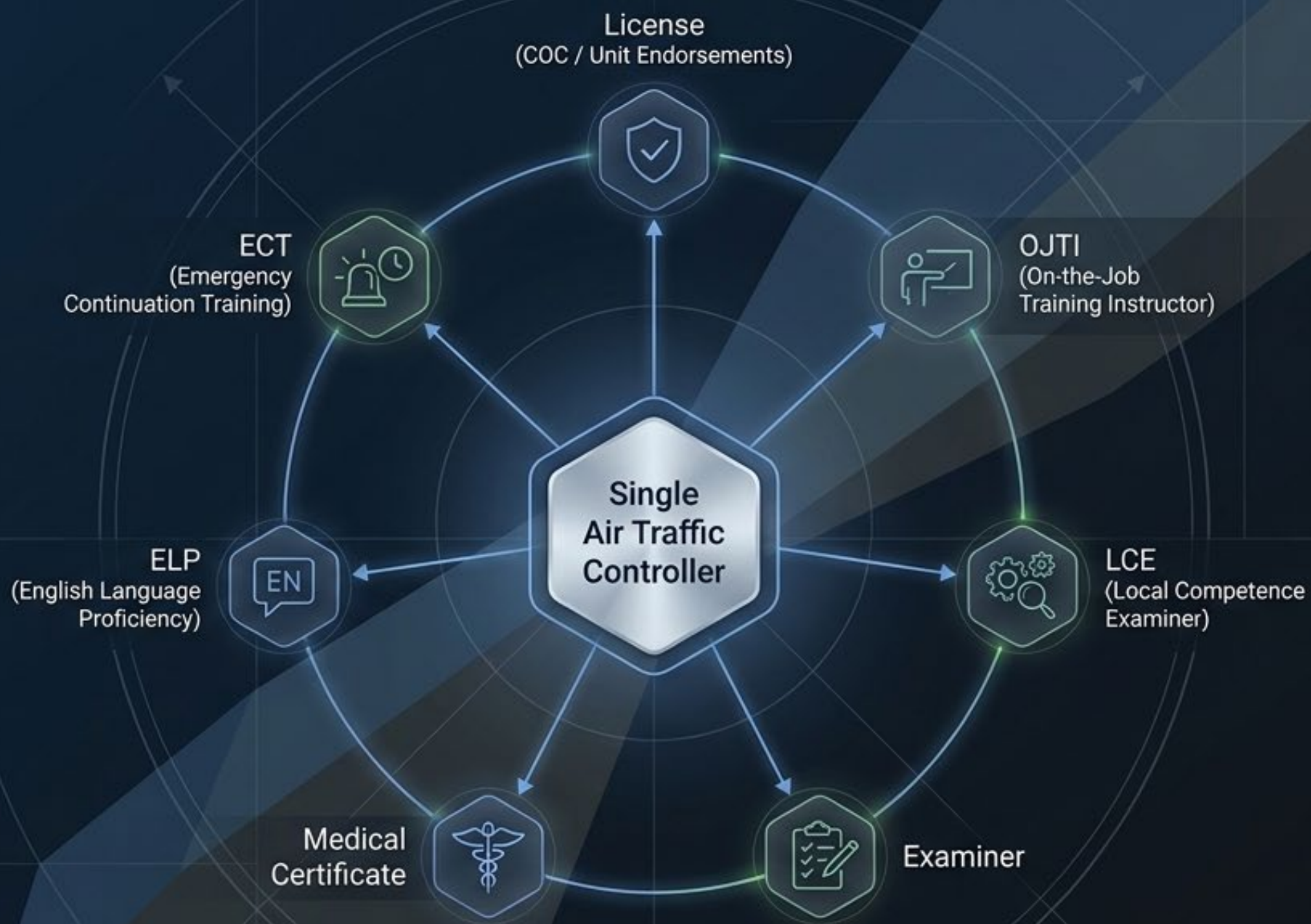
Automated ATCO Qualification
Tracking & Predictive Alerting



By Eng. Aiham Alasadi – Director of Exams Unit-

The Credentialing Constellation

To keep a single controller plugged into the active roster, seven highly regulated, constantly shifting expiration dates must be managed flawlessly.

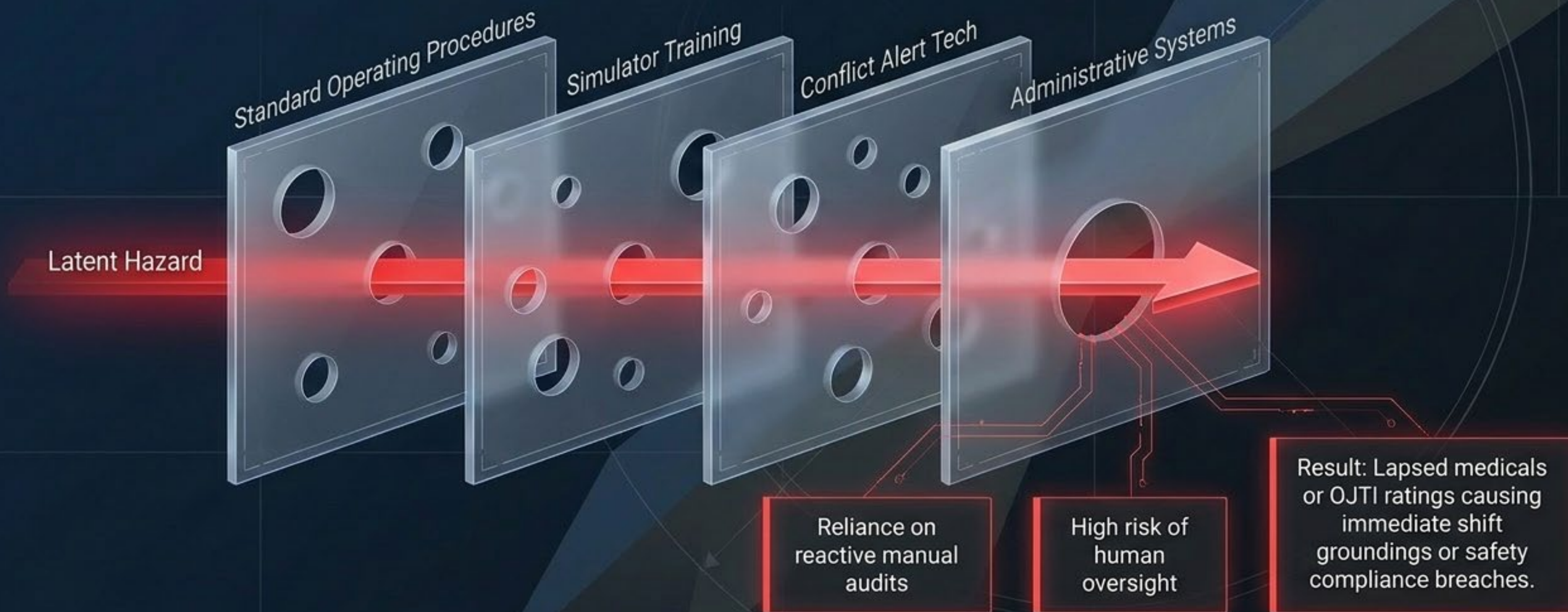


INSIGHT

Multiply this complexity by 100+ controllers across ACC, Approach, and Tower facilities.

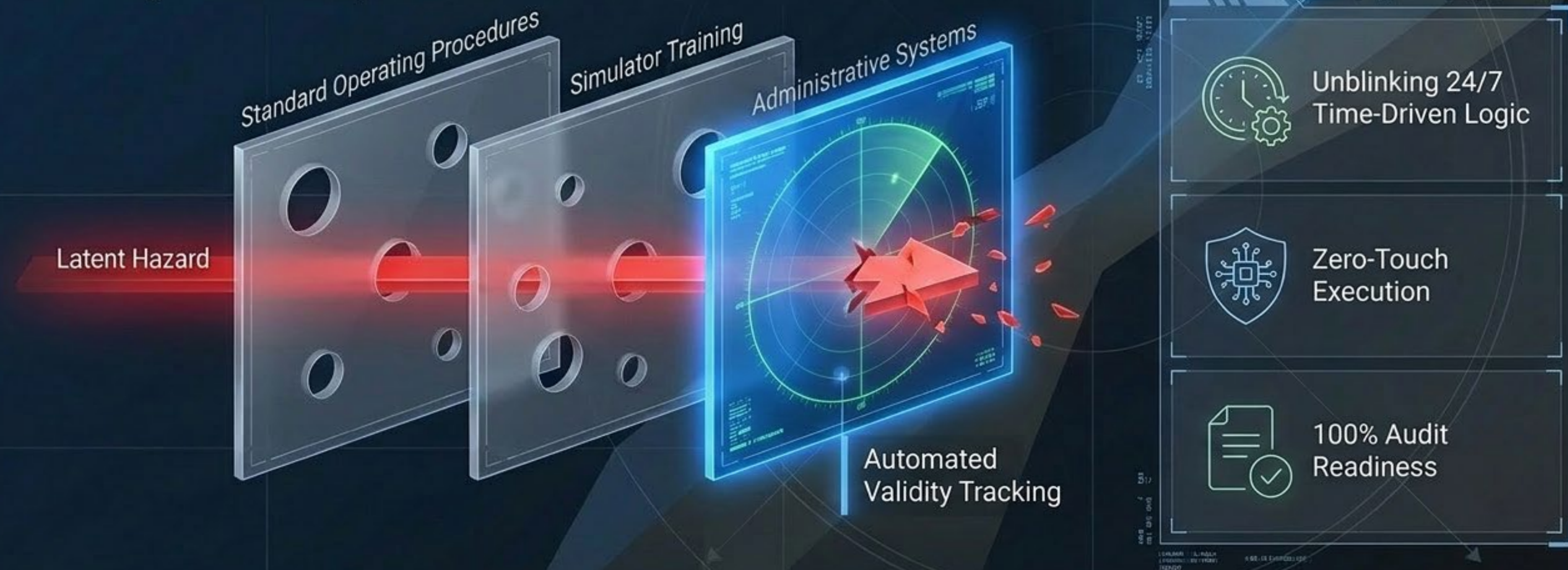
The Administrative Hole in the Swiss Cheese

Operational airspace is heavily fortified, but administrative tracking is often left to isolated spreadsheets, human memory, and manual checks.



Sealing the Vulnerability: The Digital Watchdog

A lightweight, automated monitoring system that runs 24/7. It tracks, calculates, and notifies controllers and supervisors of impending expirations before they manifest as operational risks.



The Master Engine: Dynamic Calculation at Scale

The system dynamically calculates the Days to Expiry engine (Column D) daily, continuously analyzing the delta between today and expiration to prime the alerting triggers.

1

1

Unified Master Database

2

7

Critical Qualifications Tracked

3

100+

Controllers Monitored

4

0

Lapses Permitted

Automated Trigger Architecture



First Line of Defense: The Proactive 30-Day Alert



30 Days Out

- **Targeted Routing:** Sent simultaneously to the individual controller and the shift supervisor.
- **The Goal:** Provides ample operational buffer to schedule medical exams, ELP tests, or check rides without causing roster panic.
- **Data in Action:** NOTIFICATION: 30 Days to Expiry - ALI HUSHAM ABDULSAHIB (COC – ADC)

NOTIFICATION: 30 Days to Expiry -
ALI HUSHAM ABDULSAHIB (COC -
ADC) Inbox ☆



exams.unit.gcan... 7:12 AM
to twr.training.gcans, me ▾



Dear Controller and Shift Supervisor,

This is an automated alert from the Exams Unit.

Please be advised that the following
endorsement/qualification is
expiring in 30 days:

- Controller: ALI HUSHAM ABDULSAHIB
- Rating: COC - ADC
- Expiry Date: 2026-07-04

Please coordinate renewal and testing steps as soon as possible.

Best Regards,
Director of Exams Unit
Alham Alasadi

The Failsafe: The 7-Day Critical Warning



- **Urgent Escalation:** Demands immediate supervisor intervention.
- **The Goal:** Prevents total operational grounding and ensures regulatory compliance.
- **Data in Action:** CRITICAL ALERT: COMPLIANCE WARNING - AHMED MUNEEER ISMAEL (OJTI)... Immediate scheduling action is required to avoid shift operational disruption.

URGENT WARNING: 7 Days to
Expiry - AHMED MUNEEER ISMAEL
(OJTI) Inbox ☆



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CRITICAL ALERT: COMPLIANCE WARNING

The following operational endorsement/qualification is
expiring in
exactly 7 DAYS:

- Controller: AHMED MUNEEER ISMAEL
- Rating: OJTI
- Expiry Date: 2026-06-11

Immediate scheduling action is required to avoid shift
operational
disruption or grounding.

Best Regards,
Director of Exams Unit
Aiham Alasadi

Audit Readiness & USOAP CMA Compliance

Dimension	Manual Tracking	Automated Tracking
Record Keeping	Fragmented, disjointed files.	Centralized, single-source-of-truth database.
Audit State	High-stress retroactive fixes before inspections.	Proactive, Always-Ready continuous monitoring.
Proof of Compliance	Difficult to prove notifications occurred.	Time-stamped, unassailable digital paper trails of all system dispatches.

Directly supports the implementation of State Safety Programmes (SSP) by providing **robust, verifiable continuous monitoring data**.

The Future is Predictive Safety

By automating administrative credential tracking, we completely remove human memory error from the compliance equation.

1.

Empower Supervisors:
Shift leaders manage airspace,
not spreadsheets.

>>

2.

Ensure Flawless Audits:
Continuous monitoring built directly
into the operational DNA.

>>

3.

Fortify the Swiss Cheese:
A vital, unshakeable layer added to
our Safety Management System.

Technology deployed not just for convenience,
but for **uncompromising operational safety.**