

CQE – Helpsheet (1-Page Checklist)

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Spine (G0→G6)

- [] G0 Tokens – Stand-ins (quantity, unit, guards, provenance) x 6–12
- [] G1 DNA-10 – timing · polarity · scale · pose · domain · conditioning · units · pre cost · seed
- [] G2 Octet – H1...H8 (independent views). Avoid duplicates.
- [] G3 Mirror – forward↔inverse (or train↔eval swap). Pal rest within tolerances.
- [] G4 Δ-lift – one local, monotone fix; non-regression rerun.
- [] G5 Strict – tighten bounds only after pass.
- [] G6 Receipt – OPE/FCE debts, votes, strict deltas, 4-bit code, evidence hash.

4/8/64 Wrapping

- 4-bit code = minimal commit.
- 8 views = coverage scaffold.
- 64 sidecars = domain labs (toggle on/off).

Color Legend

Gray = rest; 8 hues = views; Red = Δ-lift; Gold = strict; Blue = receipts.

Δ-lift Cookbook (pick one)

- () Identity swap (algebraic equivalence)
- () Units fix / scaling guard
- () Windowing / filter robustness
- () Regularize / smoothing
- () Local re-fit (bounded)
- () Threshold hysteresis
- () Data parity rebalance
- () Retry with mirrored order

Strict Ratchet (examples)

- MAE: 0.12 → 0.09 • AR (dB): $\leq 1.7 \rightarrow \leq 1.5$ • WFE (nm): $\leq 22 \rightarrow \leq 20$
- ΔT per tick (K): $\leq 1.0 \rightarrow \leq 0.8$ • BER: $\leq 1e-5 \rightarrow \leq 8e-6$

Receipts (fill)

Job ID: _____ Date: _____ Sidecars: _____
Mirror votes: ____/____ View votes: ____/____
OPE debt: _____ FCE debt: _____
Strict deltas: _____
Δ-lift note: _____
4-bit code: [][][][] Evidence hash: _____

Common Pitfalls

- Views are not independent → widen Octet.
- Multiple Δ-lifts in one run → split into runs.
- No mirror/inverse defined → design one first.
- Strict tightened without a pass → roll back.

- Meaning bound too early → keep tokens provisional.

Mantras

Code → Lattice → Overlay → Mirror → Commit.

Form is fixed; meaning earns its place.