

CQE – Helpsheet (1-Page Checklist)

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Spine (G0→G6)

- [] G0 Tokens – Stand-ins (quantity, unit, guards, provenance) \times 6–12
- [] G1 DNA-10 – timing \cdot polarity \cdot scale \cdot pose \cdot domain \cdot conditioning \cdot units \cdot pre-cost \cdot seed
- [] G2 Octet – H1...H8 (independent views). Avoid duplicates.
- [] G3 Mirror – forward \leftrightarrow inverse (or train \leftrightarrow 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 \rightarrow 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 \rightarrow widen Octet.
- Multiple Δ -lifts in one run \rightarrow split into runs.
- No mirror/inverse defined \rightarrow design one first.
- Strict tightened without a pass \rightarrow roll back.

- Meaning bound too early → keep tokens provisional.

Mantras

Code → Lattice → Overlay → Mirror → Commit.

Form is fixed; meaning earns its place.