



Optimize[®]

by Akuratemp[®]

Cold Chain Process Optimization Services

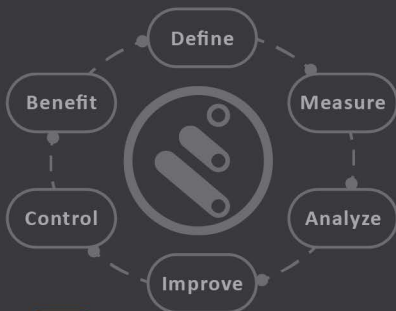
IDENTIFY FAILURE MODES

ENHANCE RELIABILITY

ESTABLISH END-TO-END TRACEABILITY

Optimize is a continuous improvement consultancy service by Akuratemp LLC. It is designed to support laboratory cold chain operations in identifying failure modes, enhancing reliability, and establishing end-to-end traceability. Our goal is to minimize the risk of specimen rejection due to temperature excursions.

We deliver **measurable, data-driven improvements** using **Lean Six Sigma** methodologies and **Data Analyses** and **Statistical Improvement** software.



Process Optimization Steps

1. Current State Cold Chain Process Mapping

We begin by collecting detailed information about your current operations — people, assets, and workflows. This step results in a comprehensive flow diagram.

2. Current State Data Collection for Benchmarking

Using Akurasense temperature and location sensors, we collect real-time data from your existing assets. This allows us to benchmark current performance and assess baseline reliability.

3. Data Analysis, Digital Modeling & Recommendations

We create a digital twin of your process using the collected data, enabling us to simulate improvements. Based on our findings, we provide tailored recommendations — ranging from workflow changes to upgrading cold chain assets.

4. Corrective Action Implementation, Review & Standardization

Upon mutual agreement, we implement improvements and conduct post-implementation reviews. Data collection is repeated to confirm reliability gains, leading to process standardization.

5. Continuous Improvement Sessions

We establish a cadence for regular process audits, identifying ongoing risks and opportunities for further optimization.

Akuratemp LLC is a North Carolina-based ISO 9001:2015 certified operation. We specialize in advanced thermal energy storage technology and services within life science Cold Chain. Akuratemp provides reusable and traceable thermal packaging systems to enhance the reliability of temperature-sensitive biologics delivery while maintaining their economic sustainability. Our IoT-enabled Cold Chain Asset Monitoring System functions across mobile and fixed assets to establish end-to-end traceability. We assure process reliability through our cold chain value stream mapping services.

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