SupplierLens Report

Precision Components Inc • Q2 2024
Generated Dec 9, 2025 3:42 AM

SUPPLIER QUALITY ANALYSIS REPORT

Supplier: Precision Components Inc
Analysis Period: Q2 2024
Report Generated: 2025-12-06 16:32:01
Analysis ID: mf-sfn-precisioncomponentsinc-q22024-5c0173db

DATA TRANSPARENCY AND AUDIT TRAIL

Company Configuration: - Industry Context: aerospace - Regulatory Standards: ISO 9001:2015, AS9100D - Analysis Methodology: AI-powered analysis with company policy integration

Data Sources Used: - NCR Log: Q2 2024 non-conformance reports - CAPA List: Corrective and preventive actions tracking
- Audit Reports: Latest supplier quality system assessments

Analysis Confidence: High (sufficient data available for reliable conclusions)

Business Rules Applied: - CAPA Closure Timelines: Critical=7d, Major=30d, Minor=90d - Risk Thresholds: High≥70, Medium≥40 - Quality Grading: A≥90, B≥80, C≥70, D≥60

Note: All analysis conclusions are based on available data and cite specific sources. Recommendations are analytical insights, not policy decisions.

EXECUTIVE SUMMARY

Precision Components Inc. has demonstrated a conditionally approved quality management system during Q2 2024, with a total of 45 non-conformance reports (NCRs) logged, of which 6 are critical, 15 major, and 24 minor. The company achieved a data completeness of 80% and a confidence level of 90%, indicating high confidence in the accuracy of the reported issues. The audit score was 75/100, reflecting significant gaps in measurement system control and incoming material verification, which pose risks to product conformity.

Overall Quality Score: 75/100 (Grade: C)

CRITICAL FINDINGS

1. Measurement System Integrity - HIGH

Issue: Critical gaps identified in the calibration and measurement system that compromise measurement integrity and traceability.
Impact: Potential shipping of nonconforming products and customer complaints.
Action Required: Immediate corrective actions to quarantine products measured with out-of-calibration equipment.

2. Incoming Material Control - HIGH

Issue: Systematic failures in incoming material verification processes resulting in nonconforming material entering production.
Impact: $47,000 in potential scrap and rework costs due to material chemistry deviations.
Action Required: Implement immediate 100% certificate of conformance verification.

3. Document Control - HIGH

Issue: Critical breakdowns in document control system resulting in obsolete procedures being used in production.
Impact: Production of parts with incorrect parameters, leading to quality issues.
Action Required: Conduct immediate document verification at all workstations.

RISK ASSESSMENT

Risk Category	Level	Details
Overall Risk	HIGH	Risk Score: 85/100
Quality Risk	HIGH	Product quality and safety risks
Process Risk	MEDIUM	Process control and management risks
Compliance Risk	HIGH	Regulatory and audit compliance risks

Mitigation Priorities: Measurement System Integrity, Incoming Material Control, Document Control

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PERFORMANCE TRENDS

Trend Category	Assessment	Details
Quality Trend	DECLINING	Overall quality performance direction
Efficiency Trend	STABLE	Process efficiency and response times
Risk Prediction	HIGH	Predicted future risk level

Recommended Monitoring Frequency: Monthly

ROOT CAUSE ANALYSIS

Primary Root Cause: Inadequate calibration tracking and verification processes.
Primary Defect Type: Measurement nonconformance
CAPA Effectiveness Rate: 57.1%
Preventive Focus Area: Enhancing training and system integration for measurement and document control.

Systemic Issues Identified: - Calibration technician position unfilled for 6 months. - No formal process for measurement system analysis. **Improvement Areas:** - Calibration Management - Document Control Processes - Incoming Material Verification

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STRATEGIC RECOMMENDATIONS

1. Hire a qualified calibration technician or contract calibration services. (IMMEDIATE Priority)

Category: Measurement System Recovery
Timeline: 30 days
Owner: Quality Manager
Success Criteria: All critical measuring equipment calibrated and verified.

2. Implement an electronic document control system. (HIGH Priority)

Category: Document Control Improvement
Timeline: 60 days
Owner: Quality Manager

Success Criteria: Reduction in obsolete documents used in production.

3. Develop risk-based sampling plans for incoming materials. (HIGH Priority)

Category: Incoming Material Control
Timeline: 90 days
Owner: Procurement Manager
Success Criteria: 100% compliance with incoming material verification.

SUPPLIER DEVELOPMENT PLAN

Development Focus Areas

- Calibration Management
- Document Control
- Incoming Material Verification

Capability Gaps Identified

- Inadequate calibration tracking
- Obsolete document usage
- Insufficient incoming material verification processes

Training Requirements

- Calibration procedures
- Document management systems
- Incoming inspection protocols **Resource Requirements:** Additional quality personnel for calibration and document management.

Success Metrics

- Reduction in NCRs related to measurement and documentation
- Improved audit scores
- Enhanced supplier performance metrics

MONITORING & OVERSIGHT PLAN

Monitoring Frequency: Monthly
Review Schedule: Monthly management review meetings.
Next Audit Date: September 30, 2024

Escalation Triggers

- Increase in NCRs
- Failure to meet corrective action timelines

Key Performance Indicators to Track

- NCR rates
- CAPA effectiveness
- On-time delivery rates

Reporting Requirements: Monthly quality performance reports to management.

QUALITY SCORE BREAKDOWN

Component	Score	Details
Overall Score	75/100	Grade: C
Quality Performance	70	NCR and defect performance
Process Efficiency	75	CAPA and response time performance
Compliance Status	80	Audit and regulatory compliance

Industry Benchmark: Industry average for aerospace suppliers is 85.

APPENDICES

A. Data Sources

- NCR Log: Q2 2024 non-conformance reports
- CAPA List: Corrective and preventive actions tracking
- Audit Report: Latest supplier quality system audit

B. Methodology

- Structured data analysis using pandas
- Unstructured document analysis

- AI-powered comprehensive assessment
- Industry best practices

This report is confidential and intended for internal supplier management use only.