CASE OVERVIEW

Fictional molded housing supplier case

Project boundary

An entirely fictional supplier of molded pump housings shows how incoming defects, PPM, capability, containment and corrective action can be connected without confusing inspection results with verified process causes.

Reference metrics

18,000 received housings; 540 nonconforming = 30,000 PPM; 8,000 received; 96 nonconforming = 12,000 PPM; 10,000 received; 150 nonconforming = 15,000 PPM; Baseline supplier COPQ: $42,600 per quarter; Critical bore Cpk improves from 0.82 to 1.28 in the fictional evidence set

Evidence caution

All values are fictional and illustrate documentation logic only.

Completed example | SQ-D01 Supplier quality opportun

Question

Create a concise evidence record for supplier quality opportunity and customer harm within the Define phase of this Supplier Quality Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: 18,000 received housings; 540 nonconforming = 30,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded supplier quality opportunity and customer harm entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Define evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

DEFINE

Completed example | SQ-D02 DMAIC supplier project ch

Question

Authorize the project with a bounded problem, outcome, scope, ownership and decision route.

Fictional evidence

Fictional case cue: 8,000 received; 96 nonconforming = 12,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded dmaic supplier project charter entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Define evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-D03 Supplier and part populat

Question

Create a concise evidence record for supplier and part population boundary within the Define phase of this Supplier Quality Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: 10,000 received; 150 nonconforming = 15,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded supplier and part population boundary entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Define evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-D04 VOC and VOB to supplier

Question

Create a concise evidence record for voc and vob to supplier ctq within the Define phase of this Supplier Quality Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: Baseline supplier COPQ: $42,600 per quarter. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded voc and vob to supplier ctq entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Define evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

MEASURE

Completed example | SQ-M01 Operational defect defini

Question

Create an operational definition for operational defect definitions that two independent reviewers can apply consistently.

Fictional evidence

Fictional case cue: 18,000 received housings; 540 nonconforming = 30,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded operational defect definitions entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Measure evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

MEASURE

Completed example | SQ-M02 Lot, batch and part trace

Question

Create a concise evidence record for lot, batch and part traceability within the Measure phase of this Supplier Quality Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: 8,000 received; 96 nonconforming = 12,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded lot, batch and part traceability entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Measure evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-M03 Incoming inspection plan

Question

Define a controlled, reviewable plan for incoming inspection plan with owners, inputs, timing and acceptance criteria.

Fictional evidence

Fictional case cue: 10,000 received; 150 nonconforming = 15,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded incoming inspection plan entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Measure evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

MEASURE

Completed example | SQ-M04 Sampling plan and accep

Question

Define a controlled, reviewable plan for sampling plan and acceptance rule with owners, inputs, timing and acceptance criteria.

Fictional evidence

Fictional case cue: Baseline supplier COPQ: $42,600 per quarter. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded sampling plan and acceptance rule entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Measure evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-M05 Measurement system che

Question

Create a concise evidence record for measurement system check within the Measure phase of this Supplier Quality Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: Critical bore Cpk improves from 0.82 to 1.28 in the fictional evidence set. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded measurement system check entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Measure evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

ANALYZE

Completed example | SQ-A01 Defect stratification matr

Question

Structure evidence for defect stratification matrix so patterns can be examined without treating association as proof of cause.

Fictional evidence

Fictional case cue: 18,000 received housings; 540 nonconforming = 30,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded defect stratification matrix entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Analyze evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

ANALYZE

Completed example | SQ-A02 Supplier defect Pareto an

Question

Structure evidence for supplier defect pareto analysis so patterns can be examined without treating association as proof of cause.

Fictional evidence

Fictional case cue: 8,000 received; 96 nonconforming = 12,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded supplier defect pareto analysis entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Analyze evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-A03 Supplier cause-and-effect

Question

Structure evidence for supplier cause-and-effect analysis so patterns can be examined without treating association as proof of cause.

Fictional evidence

Fictional case cue: 10,000 received; 150 nonconforming = 15,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded supplier cause-and-effect analysis entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Analyze evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-A04 Supplier 5 Why analysis

Question

Structure evidence for supplier 5 why analysis so patterns can be examined without treating association as proof of cause.

Fictional evidence

Fictional case cue: Baseline supplier COPQ: $42,600 per quarter. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded supplier 5 why analysis entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Analyze evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-A05 Supplier process walk and

Question

Create a concise evidence record for supplier process walk and audit evidence within the Analyze phase of this Supplier Quality Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: Critical bore Cpk improves from 0.82 to 1.28 in the fictional evidence set. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded supplier process walk and audit evidence entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Analyze evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-I01 Supplier improvement opp

Question

Create a concise evidence record for supplier improvement opportunity list within the Improve phase of this Supplier Quality Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: 18,000 received housings; 540 nonconforming = 30,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded supplier improvement opportunity list entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Improve evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-I02 Supplier corrective action

Question

Create a concise evidence record for supplier corrective action request within the Improve phase of this Supplier Quality Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: 8,000 received; 96 nonconforming = 12,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded supplier corrective action request entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Improve evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-I03 8D integration and owners

Question

Create a concise evidence record for 8d integration and ownership within the Improve phase of this Supplier Quality Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: 10,000 received; 150 nonconforming = 15,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded 8d integration and ownership entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Improve evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-I04 Containment improvement

Question

Define a controlled, reviewable plan for containment improvement plan with owners, inputs, timing and acceptance criteria.

Fictional evidence

Fictional case cue: Baseline supplier COPQ: $42,600 per quarter. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded containment improvement plan entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Improve evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

Completed example | SQ-C01 Supplier performance sco

Question

Create a concise evidence record for supplier performance scorecard within the Control phase of this Supplier Quality Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: 18,000 received housings; 540 nonconforming = 30,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded supplier performance scorecard entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Control evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

CONTROL

Completed example | SQ-C02 Incoming quality control p

Question

Define a controlled, reviewable plan for incoming quality control plan with owners, inputs, timing and acceptance criteria.

Fictional evidence

Fictional case cue: 8,000 received; 96 nonconforming = 12,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded incoming quality control plan entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Control evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

CONTROL

Completed example | SQ-C03 Supplier reaction plan

Question

Define a controlled, reviewable plan for supplier reaction plan with owners, inputs, timing and acceptance criteria.

Fictional evidence

Fictional case cue: 10,000 received; 150 nonconforming = 15,000 PPM. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded supplier reaction plan entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Control evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.

CONTROL

Completed example | SQ-C04 PPM monitoring sheet

Question

Monitor ppm monitoring sheet with an explicit trigger, reaction and accountable owner.

Fictional evidence

Fictional case cue: Baseline supplier COPQ: $42,600 per quarter. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded ppm monitoring sheet entry, identifies the controlled source, states the result and notes the decision consequence.

Decision

Control evidence is accepted only for the fictional route described in this case; unresolved contradictions remain visible.