CASE OVERVIEW

Fictional machined-bracket cost case

Project boundary

An entirely fictional machining cell combines scrap, overtime, tool consumption and rework. The case distinguishes gross opportunities from finance-validated savings and prevents cost reduction from being claimed before volume and quality effects are reconciled.

Reference metrics

Quarterly addressable operating cost: $186,000; Normalized quarterly run-rate after pilot: $147,500; Validated gross reduction: $38,500 per quarter; One-time implementation cost: $22,000; Simple payback = 22,000 / (38,500/3) = 1.71 months

Evidence caution

All values are fictional and illustrate documentation logic only.

Completed example | CR-D01 Cost opportunity and bus

Question

Create a concise evidence record for cost opportunity and business harm within the Define phase of this Cost Reduction Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: Quarterly addressable operating cost: $186,000. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded cost opportunity and business 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 | CR-D02 DMAIC cost-reduction cha

Question

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

Fictional evidence

Fictional case cue: Normalized quarterly run-rate after pilot: $147,500. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded dmaic cost-reduction 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 | CR-D03 Cost population and boun

Question

Create a concise evidence record for cost population and boundary within the Define phase of this Cost Reduction Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: Validated gross reduction: $38,500 per quarter. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded cost population and 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.

DEFINE

Completed example | CR-D04 Customer CTQ and no-har

Question

Identify and bound risks related to customer ctq and no-harm guardrails before the team changes the process.

Fictional evidence

Fictional case cue: One-time implementation cost: $22,000. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded customer ctq and no-harm guardrails 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 | CR-M01 Operational cost definitio

Question

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

Fictional evidence

Fictional case cue: Quarterly addressable operating cost: $186,000. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded operational cost 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.

Completed example | CR-M02 Unit-cost bridge

Question

Create a concise evidence record for unit-cost bridge within the Measure phase of this Cost Reduction Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: Normalized quarterly run-rate after pilot: $147,500. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded unit-cost bridge 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 | CR-M03 Volume and mix normaliz

Question

Create a concise evidence record for volume and mix normalization within the Measure phase of this Cost Reduction Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: Validated gross reduction: $38,500 per quarter. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded volume and mix normalization 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 | CR-M04 Material cost baseline

Question

Establish a reproducible starting point for material cost baseline before any improvement is credited.

Fictional evidence

Fictional case cue: One-time implementation cost: $22,000. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded material cost baseline 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 | CR-M05 Scrap cost baseline

Question

Establish a reproducible starting point for scrap cost baseline before any improvement is credited.

Fictional evidence

Fictional case cue: Simple payback = 22,000 / (38,500/3) = 1.71 months. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded scrap cost baseline 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 | CR-A01 Cost-driver stratification

Question

Create a concise evidence record for cost-driver stratification within the Analyze phase of this Cost Reduction Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: Quarterly addressable operating cost: $186,000. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded cost-driver stratification 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 | CR-A02 Cost Pareto analysis

Question

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

Fictional evidence

Fictional case cue: Normalized quarterly run-rate after pilot: $147,500. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded cost 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.

ANALYZE

Completed example | CR-A03 Scrap cause-and-effect ar

Question

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

Fictional evidence

Fictional case cue: Validated gross reduction: $38,500 per quarter. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded scrap 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 | CR-A04 Rework cause analysis

Question

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

Fictional evidence

Fictional case cue: One-time implementation cost: $22,000. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded rework cause 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.

ANALYZE

Completed example | CR-A05 Overtime cause analysis

Question

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

Fictional evidence

Fictional case cue: Simple payback = 22,000 / (38,500/3) = 1.71 months. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded overtime cause 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 | CR-I01 Cost-reduction opportunity

Question

Create a concise evidence record for cost-reduction opportunity list within the Improve phase of this Cost Reduction Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: Quarterly addressable operating cost: $186,000. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded cost-reduction 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 | CR-I02 Solution screening by CTQ

Question

Identify and bound risks related to solution screening by ctq risk before the team changes the process.

Fictional evidence

Fictional case cue: Normalized quarterly run-rate after pilot: $147,500. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded solution screening by ctq risk 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 | CR-I03 Material-yield improvemer

Question

Create a concise evidence record for material-yield improvement within the Improve phase of this Cost Reduction Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: Validated gross reduction: $38,500 per quarter. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded material-yield improvement 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 | CR-I04 Scrap reduction action

Question

Create a concise evidence record for scrap reduction action within the Improve phase of this Cost Reduction Lean Six Sigma Project Forms workbook.

Fictional evidence

Fictional case cue: One-time implementation cost: $22,000. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded scrap reduction action 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.

CONTROL

Completed example | CR-C01 Cost control plan

Question

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

Fictional evidence

Fictional case cue: Quarterly addressable operating cost: $186,000. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded cost 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 | CR-C02 Cost-per-good-unit monito

Question

Monitor cost-per-good-unit monitoring with an explicit trigger, reaction and accountable owner.

Fictional evidence

Fictional case cue: Normalized quarterly run-rate after pilot: $147,500. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded cost-per-good-unit monitoring 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 | CR-C03 Scrap cost monitoring

Question

Monitor scrap cost monitoring with an explicit trigger, reaction and accountable owner.

Fictional evidence

Fictional case cue: Validated gross reduction: $38,500 per quarter. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded scrap cost monitoring 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 | CR-C04 Rework cost monitoring

Question

Monitor rework cost monitoring with an explicit trigger, reaction and accountable owner.

Fictional evidence

Fictional case cue: One-time implementation cost: $22,000. Use this only as invented practice data; replace it with controlled project evidence.

Worked record

The fictional team records a bounded rework cost monitoring 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.